

# TOWN OF YANCEYVILLE NORTH AVENUE SIDEWALK & FIRETOWER ROAD MULTI-USE PATH

CASWELL COUNTY, NORTH CAROLINA

NCDOT PROJECT NO. EB-3314 E  
WBS: 33935.2.5  
FEDERAL AID NO.: STPEB-000S(765)

## TOWN OF YANCEYVILLE

158 EAST CHURCH STREET (TOWN HALL)  
YANCEYVILLE, NORTH CAROLINA 27379  
TELEPHONE: (336) 694-5431  
FAX: (336) 694-1469

MAYOR

### TOWN COUNCIL

ALVIN FOSTER, MAYOR PRO-TEM  
ODESSA D. GWYNN  
BRIAN MASSEY  
KEITH TATUM

### TOWN OF YANCEYVILLE ADMINISTRATION

BRIAN COLLIE - TOWN MANAGER

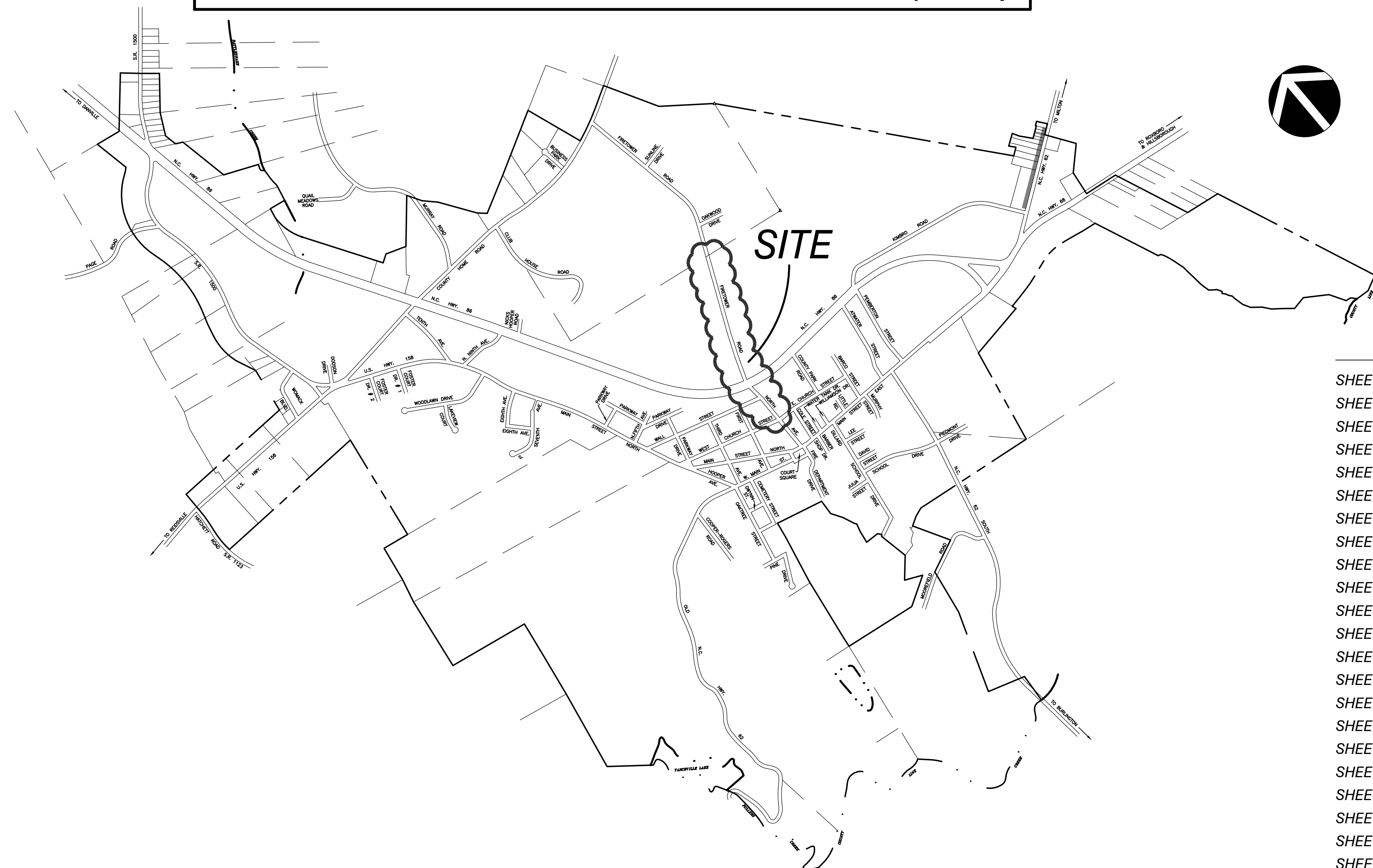
ALLEY, WILLIAMS, CARMEN & KING, INC.  
BURLINGTON, NORTH CAROLINA

LEVEL III CERTIFIED BY:  
TROY KING, P.E.  
CERTIFICATION NUMBER : 3739  
ISSUED: DECEMBER 2, 2014

THESE EROSION AND SEDIMENT CONTROL PLANS  
COMPLY WITH THE REGULATIONS SET FORTH BY  
THE NCG-010000 GENERAL CONSTRUCTION  
PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE  
NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WATER QUALITY.

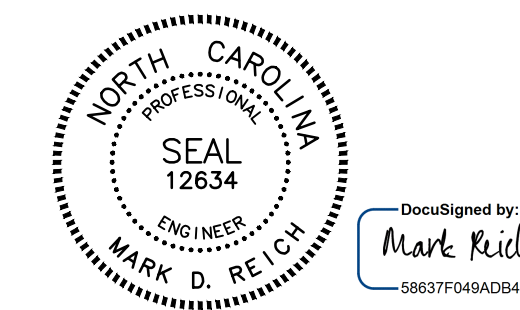
ALLEY, WILLIAMS, CARMEN, & KING, INC.  
ENGINEERS & ARCHITECTS  
740 CHAPEL HILL ROAD  
BURLINGTON, NORTH CAROLINA 27215  
TELEPHONE: 336-226-5534

FIRM'S ENGINEERING LICENSE NO. F-0203



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SHEET 14.3 - EROSION CONTROL DETAILS



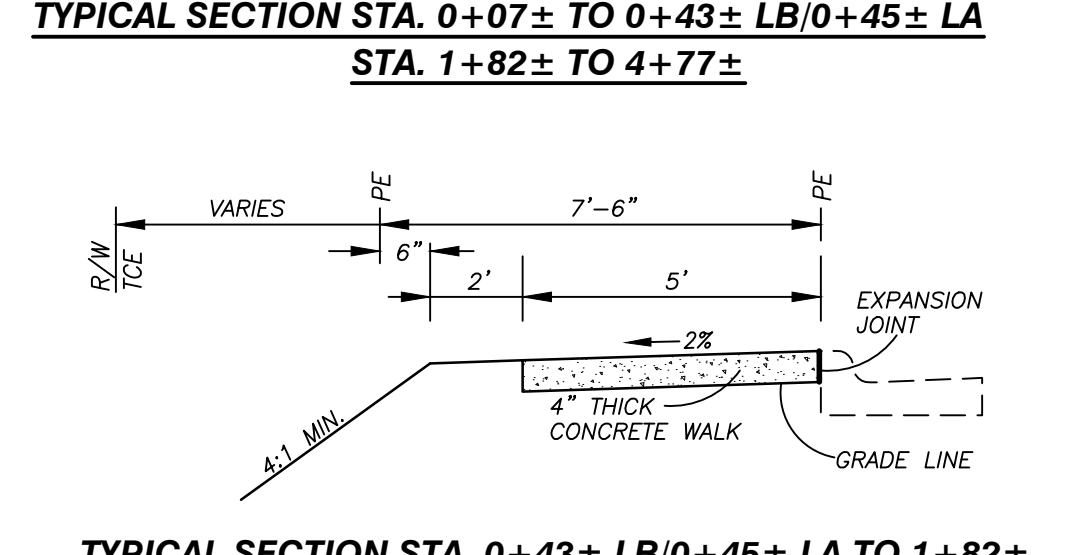
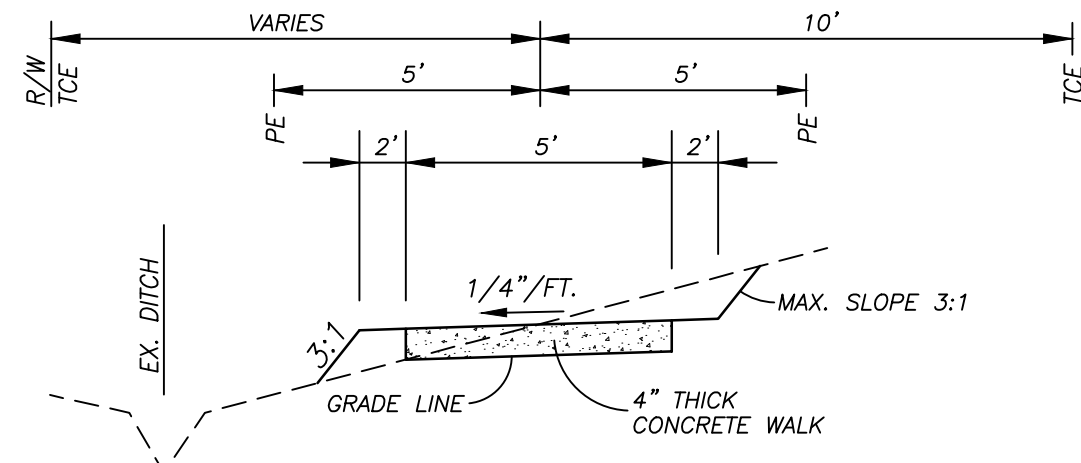
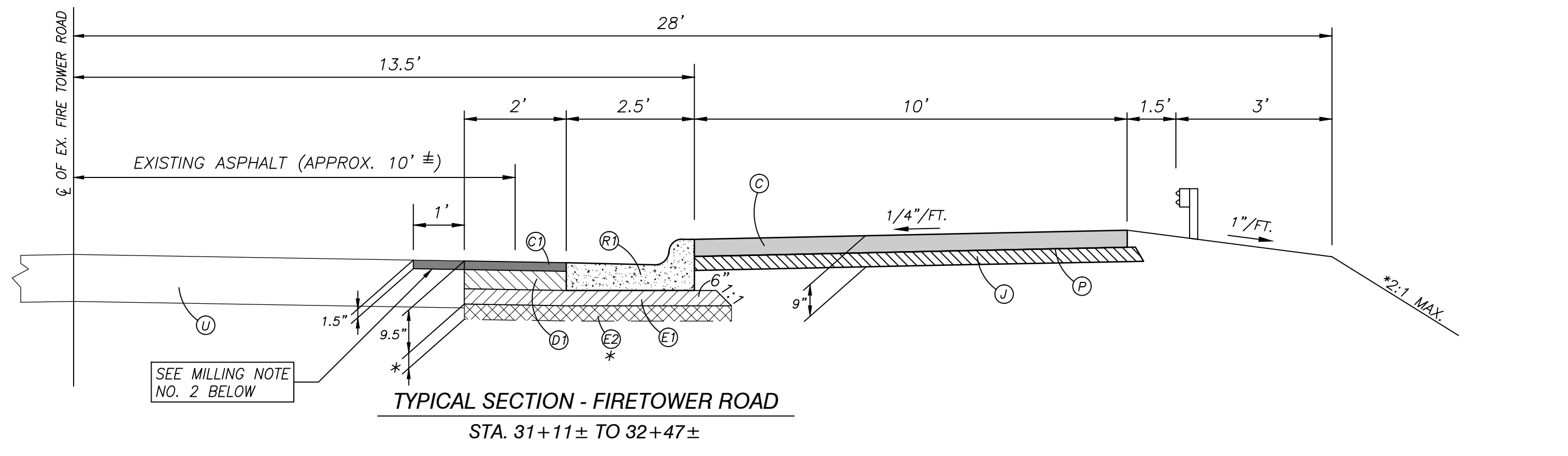
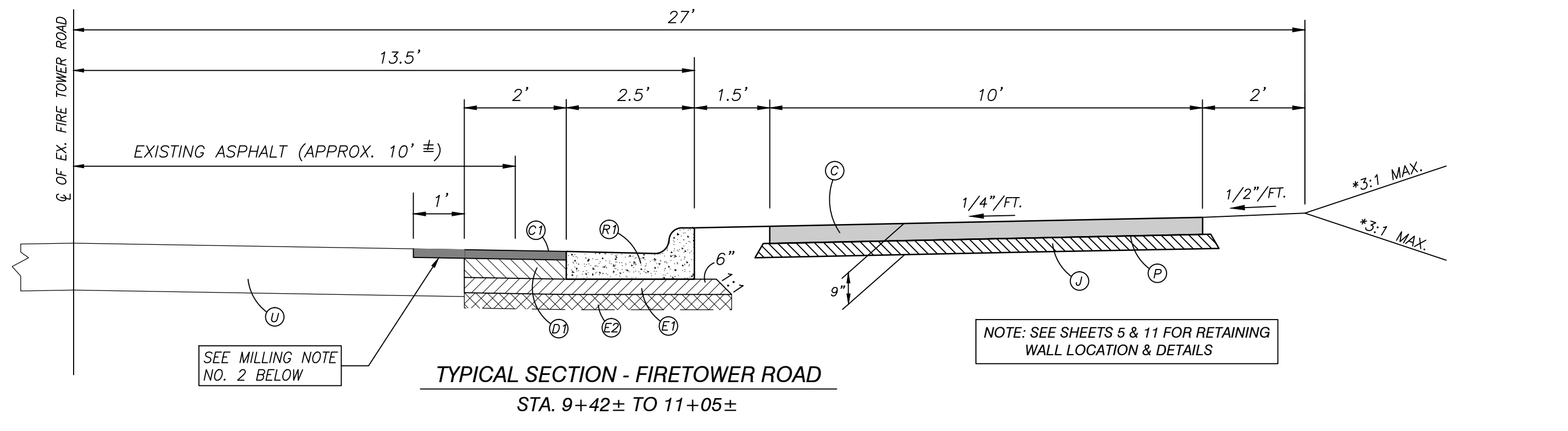
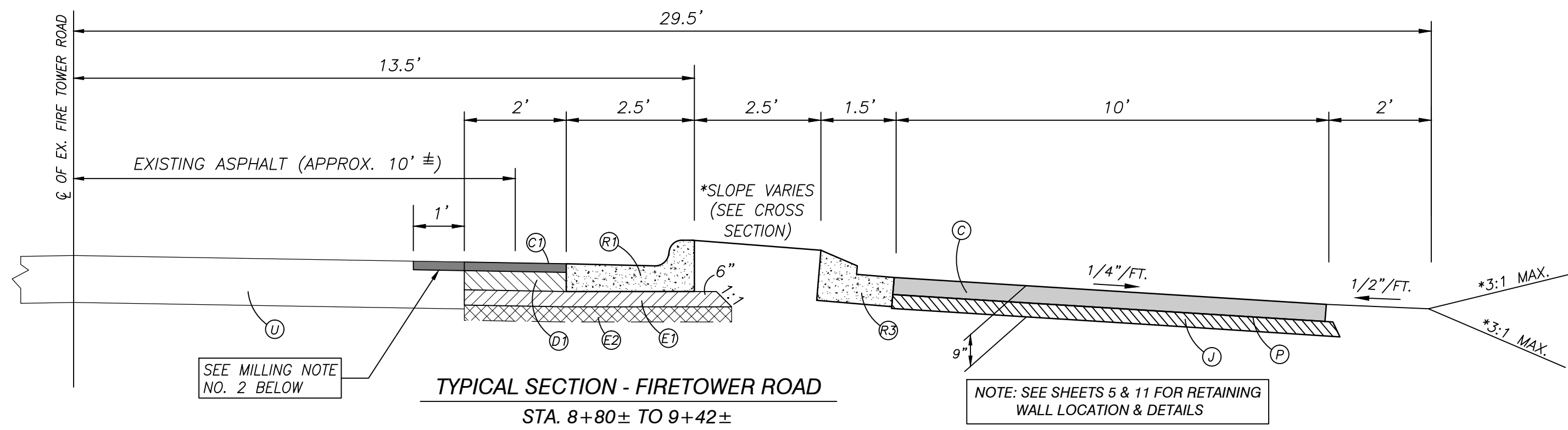
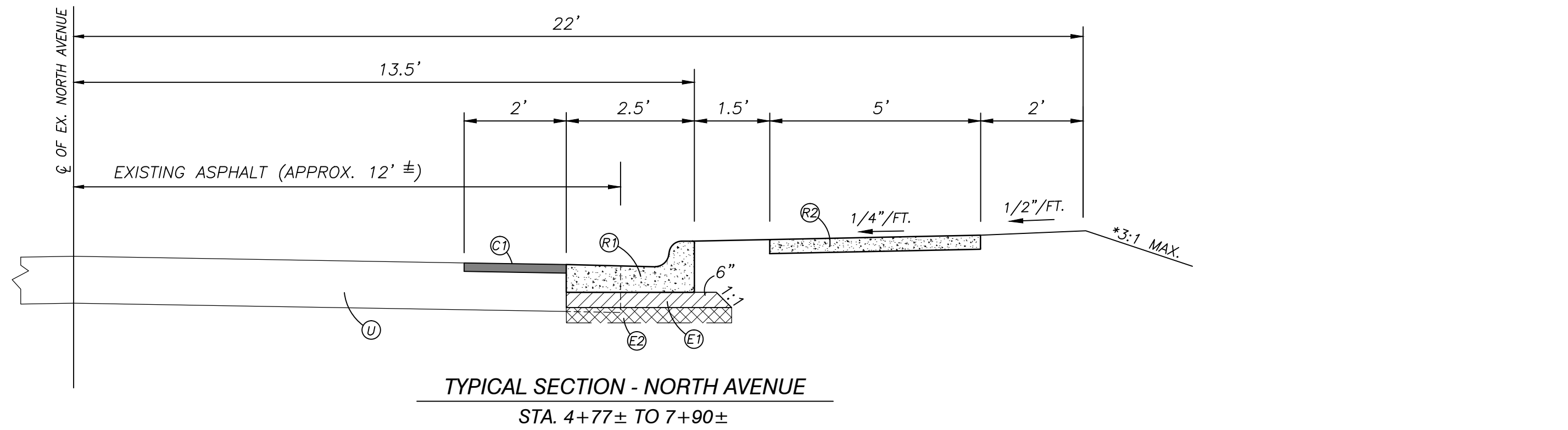
DocuSigned by  
Mark Reich  
58937FD4BAC6407

JOB NO. 13069

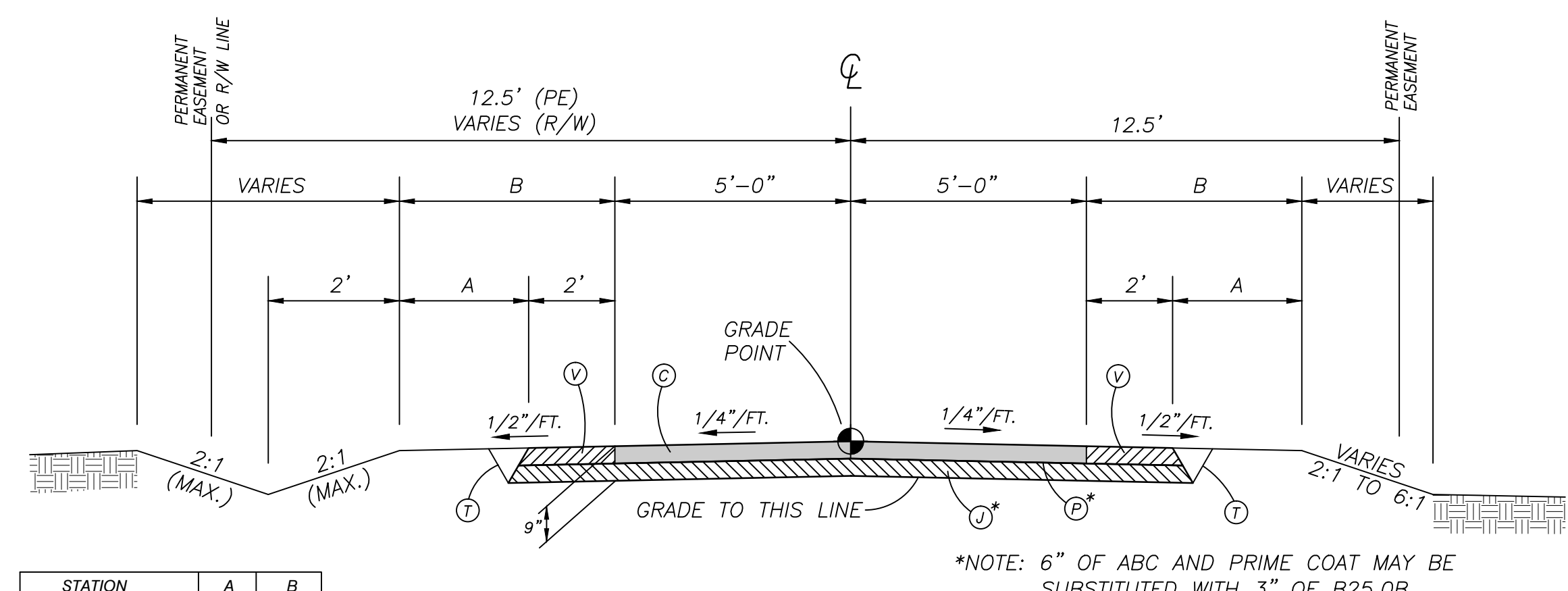
REV. 8/24/15 PER NCDOT COMMENTS  
REV. 7/29/15 REVISED WBS NUMBER

DATE: AUGUST 15, 2014





BETWEEN STA. 0+00 TO STA. 4+80±, GRADE TYPICAL SECTION TO PROPOSED GRADE LINE. ENGINEER WILL DIRECT SHALLOW UNDERCUTTING ANY AREA DEEMED UNSUITABLE & CONTRACTOR SHALL INSTALL GEOTEXTILE FOR SOIL STABILIZATION & CLASS IV SUBGRADE STABILIZATION AS REQUIRED TO PROVIDE STABLE SUBGRADE.

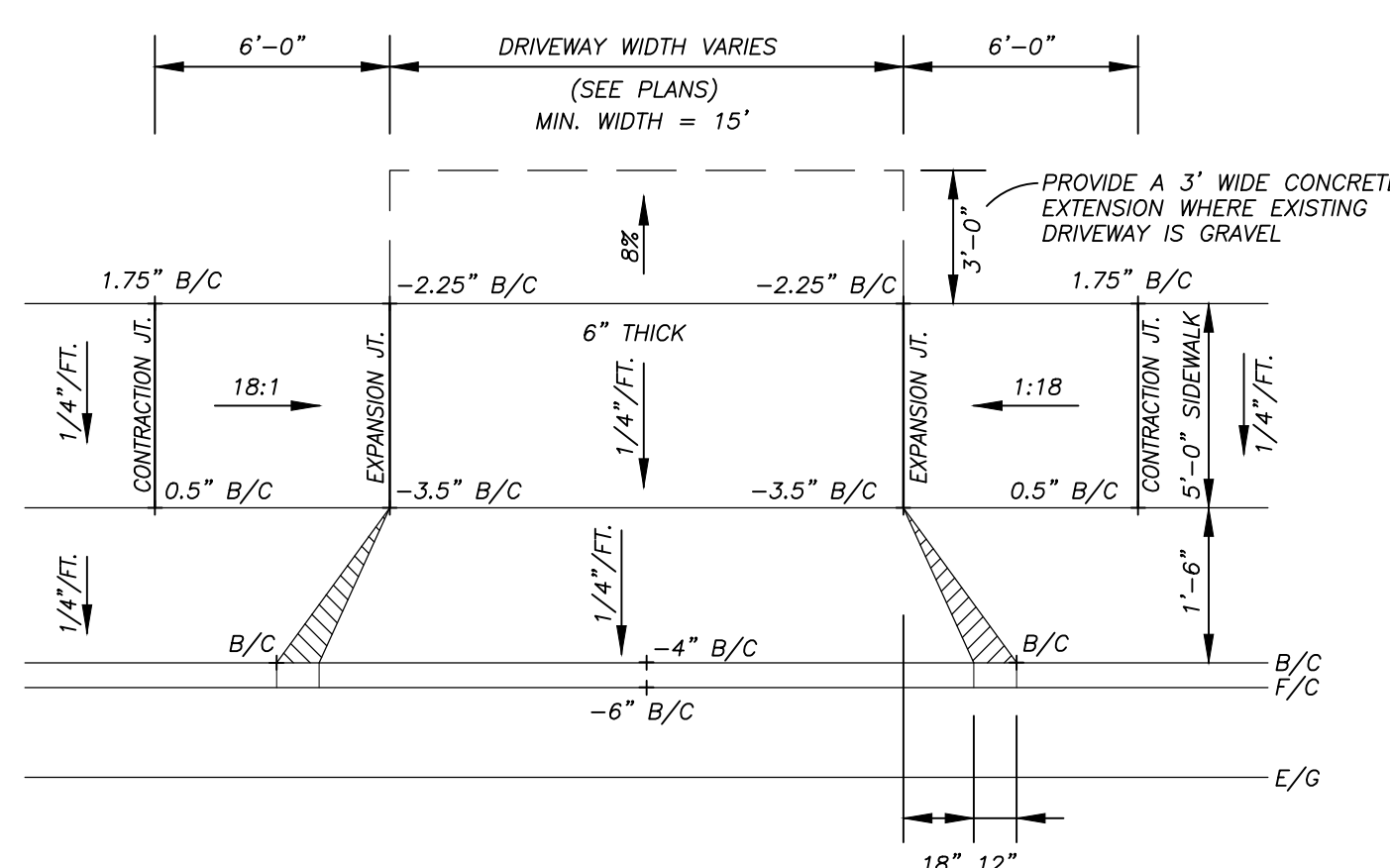


STATION	A	B
11+75 TO 13+63.5	1'	3'
13+63.5 TO 13+90.0	1'-3"	3'-5"
13+90.0 TO 28+50	3'	5'
28+50 TO 28+60	3'-1"	5'-3"
28+60 TO 29+40	1'	3'
29+40 TO 29+50	1'-3"	3'-5"
29+50 TO 31+08	3'	5'
32+44 TO 33+23	3'	5'

### PAVEMENT SCHEDULE

C	PROPOSED APPROXIMATE 1.5" BITUMINOUS CONCRETE SURFACE COURSE, TYPE S9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQUARE YARD IN EACH OF TWO LAYERS.
J	PROPOSED 6" AGGREGATE BASE COURSE.
P	PRIME COAT AT THE RATE OF 0.35 GAL. PER SQ. YD.
T	EARTH MATERIAL.
V	PROPOSED APPROXIMATE 2" OF SELECT GRANULAR MATERIAL.

NOTE: ALL PAVEMENT EDGE SLOPES ARE 1:1



PIPE REMOVAL SUMMARY				
STATION	LOCATION	LENGTH	SIZE	REMARKS
11+14 LA	LT	6	18" RCP	REMOVE EXISTING 18" FES
11+72 LA	LT	6	18" RCP	REMOVE EXISTING 18" FES
12+72	LT	2±	18" RCP	REMOVE EXISTING 18" RCP TO CONSTRUCT PROPOSED DI
31+84	RT	UNK	6" TCP	REMOVE EXISTING 6" TCP & HEADWALL

Doghouse Structures	
Structure #	Structure Top
3	575.13 RIM
4	575.69 T/C

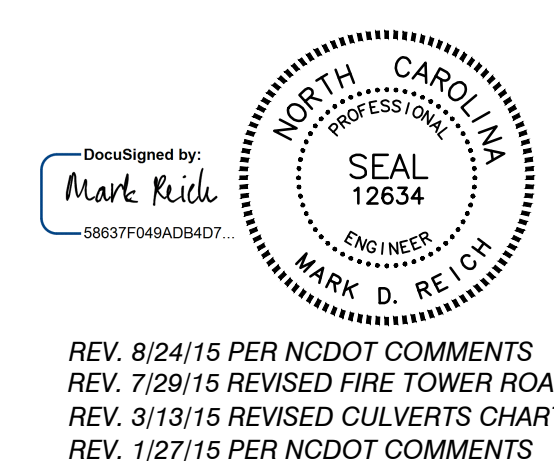
CULVERTS																
Structure # Up	Structure # Down	DrainageArea	RunoffCoeff	Tc	125	Incr Q	FlowRate	25-yr HW/D	LineSize	Line Length	Line Slope	Velocity	InvertUp	InvertDn	HGLUp	HGLDn
13	14	0.42	0.60	10	6.27	1.58	1.58	0.54	15	32	3.13	6.38	596.50	595.50	597.00	595.82
18	19	0.30	0.35	10	6.27	0.66	0.66	0.33	15	32	3.13	5.01	575.20	574.20	575.52	574.41
20	21	1.46	0.35	10	6.27	3.20	3.20	0.82	15	72	4.17	8.78	546.00	543.00	546.72	543.42
22	23 *								84	40	0.33		538.63	538.50		
26	27	0.07	0.35	10	6.27	0.15	0.15	0.17	15	32	6.88	4.21	555.00	552.80	555.15	552.88
* No hydraulic data provided other than inverts & slope since culvert is an extension to existing NCDOT culvert.																

\* No hydraulic data provided other than inverts & slope since culvert is an extension to existing NCDOT culvert.

STORM SEWER CHART																			
Structure # Up	Structure # Down	DrainageArea	TotalArea	RunoffCoeff	Tc	125	Incr Q	FlowRate	Capacity Full	LineSize	Line Length	Line Slope	Vel Ave	InvertUp	InvertDn	RimElev Up	Rim Elev Dn	HGLUp	HGLDn
		(ac)	(ac)	(C)	(min)	(in/hr)	(cfs)	(cfs)	(cfs)	(in)	(ft)	(%)	(ft/s)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
1	2	0.6	0.6	0.65	10.3	5.16	2.01	2.01	17.84	15	80.43	6.55	3.74	587.59	592.85	N/A	N/A	588.15	593.59
6	5	0.16	0.16	0.95	10.0	5.89	0.89	0.89	7.18	15	8.55	1.05	3.44	572.71	572.62	575.71	N/A	573.08	572.92
8	7	0.17	0.17	0.85	10.0	5.89	0.85	0.85	19.25	15	32.49	7.57	5.36	584.99	582.53	587.99	586.03	585.35	582.71
11	12	0.06	4.01	0.60	13.4	5.27	0.21	8.65	11.38	18	28.00	1.00	6.55	593.88	593.60	597.00	N/A	595.02	594.58
11A	11	0.05	0.05	0.90	10.0	5.89	0.26	0.26	2.46	12	69.00	0.41	0.34	594.16	593.88	595.70	597.00	596.71	596.71
15	17	0.33	0.33	0.35	10.0	5.89	0.68	0.68	11.18	15	38.00	2.55	3.87	594.35	593.38	N/A	596.10	594.67	593.59
16	17	0.28	0.28	0.60	10.0	5.89	0.99	0.99	12.12	15	10.00	3.00	4.48	593.68	593.38	N/A	596.10	594.07	593.62
24	25	0.08	0.08	0.95	10.0	5.89	0.45	0.45	15.34	15	52.00	19.23	2.42	551.60	541.60	557.27	N/A	551.86	541.86

- MULTI-USE PATH NOTES:**
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NCDOT 2012 STANDARD SPECIFICATIONS AND DETAIL DRAWINGS.
  - WHEN NECESSARY, RELOCATE ROADWAY SIGNS.
  - ADJUST UTILITIES, VALVES, METER BOXES AND MANHOLES AS REQUIRED TO MATCH ADJACENT GRADE.

- CONCRETE SIDEWALK NOTES:**
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NCDOT 2012 STANDARD SPECIFICATIONS AND DETAIL DRAWINGS.
  - CONCRETE MIX DESIGN SHALL BE CLASS A, AIR ENTRAINED, NON-VIBRATORY MIX AND SHALL BE A STANDARD NCDOT APPROVED MIX DESIGN.
  - WHEN NECESSARY, RELOCATE ROADWAY SIGNS.
  - ADJUST UTILITIES, VALVES, METER BOXES AND MANHOLES AS REQUIRED TO MATCH SIDEWALK/SHOULDER GRADE.
  - ALL SIDEWALKS SHALL BE IN COMPLIANCE WITH ADA REQUIREMENTS.
  - USE HIGH EARLY STRENGTH CONCRETE FOR ALL DRIVEWAYS.



REV. 8/24/15 PER NCDOT COMMENTS  
REV. 7/29/15 REVISED FIRE TOWER ROAD SECTIONS  
REV. 3/13/15 REVISED CULVERTS CHART  
REV. 1/27/15 PER NCDOT COMMENTS

- TRENCHING FOR BASE COURSE/MILLING NOTES:**
- WHERE THE EDGE OF PROPOSED CONCRETE GUTTER IS WITHIN EDGE OF EXISTING PAVEMENT, THEN:
- TRENCH AREA RIGHT OF PROPOSED EDGE OF CONCRETE GUTTER TO BASE COURSE SUBGRADE (E1). IF DIRECTED BY ENGINEER, UNDERCUT & PROVIDE BASE COURSE (E2). INSTALL BASE COURSE.
  - MILL A 1 FT. WIDE STRIP, APPROXIMATELY 1.5" IN DEPTH ONTO EXISTING PAVEMENT.
  - PROVIDE A NEAT, UNIFORM EDGE OF CONCRETE GUTTER.
  - SEE PROJECT SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- WHERE THE EDGE OF PROPOSED CONCRETE GUTTER IS BEYOND EDGE OF EXISTING PAVEMENT, THEN:
- TRENCH AREA FROM 2' LEFT OF EDGE OF CONCRETE GUTTER TO 1' RIGHT OF BACK OF CURB TO BASE COURSE SUBGRADE (E1). IF DIRECTED BY ENGINEER, UNDERCUT & PROVIDE BASE COURSE (E2). INSTALL BASE COURSE (E1) & (D1).
  - PROVIDE A NEAT, UNIFORM EDGE OF CONCRETE GUTTER.
  - SEE PROJECT SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

PAVEMENT SCHEDULE	
C1	PROPOSED APPROXIMATE 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 109 LBS. PER SQUARE YARD IN EACH OF TWO LAYERS.
D1	PROPOSED APPROXIMATE 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 1/2 0 B, AT AN AVERAGE RATE OF 456 LBS. PER SQUARE YARD. TYPE B25.0B MAY BE USED IF INSTALLATION OCCURS SAME DAY AS E1.
E1	PROPOSED APPROXIMATE 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQUARE YARD.
E2	PROPOSED SHALLOW UNDERCUT TO STABLE SUBGRADE AS DIRECTED BY ENGINEER (DEPTH VARIES). PROPOSED DEPTH VARIES, ASPHALT CONCRETE BASE COURSE, TYPE B 25.0B AT AN AVERAGE RATE OF 114 LBS./IN THICK PER SQUARE YARD. MAXIMUM LIFT THICKNESS OF B 25.0B IS 5.5 INCHES.
R1	2'-6" CONCRETE CURB & GUTTER, NCDOT STD. 846.01
R2	5'-0" CONCRETE SIDEWALK, 4" THICK
R3	1'-6" CONCRETE CURB & GUTTER, NCDOT STD. 846.01
U	EXISTING PAVEMENT

NCDOT PROJECT NO. EB-3314 E

PROPOSED SIDEWALK IMPROVEMENTS FOR

## TOWN OF YANCEYVILLE

YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC

alley, williams, carmen & king, inc.  
ENGINEERS, ARCHITECTS & SURVEYORS

740 chapel hill road  
burlington, n.c. 27215

p.o. box 1179  
336/226-5534

Firm's Engineering License No. F-0203

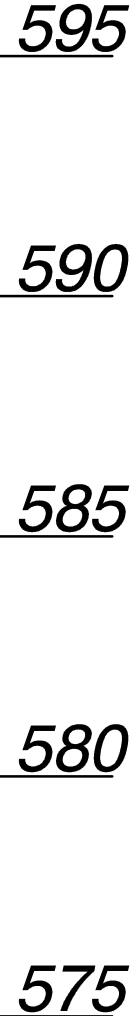
DATE: 8/15/14  
DRAWN BY: WDF  
CHECKED BY: MDR

JOB NO. 13069  
DWG NAME: 13069(10153)BASE.DWG  
SHEET NO. 2

TYPICAL SECTIONS



THE ENGINEER/ARCHITECT HAS MADE NO EXAMINATION TO DETERMINE WHETHER ANY HAZARDOUS OR TOXIC MATERIALS ARE PRESENT OR CONTAINED IN, UNDER, OR ON THE SUBJECT PROPERTY OR ITS WATERS, OR IF ANY HAZARDOUS OR TOXIC MATERIALS HAVE CONTAMINATED THIS OR OTHER PROPERTIES OR ITS WATERS IN ANY WAY WHATSOEVER. NO SUB-SURFACE EXAMINATION OF ANY TYPE HAS BEEN MADE BY THE ENGINEER/ARCHITECT, AND ACCORDINGLY, NO OPINION IS EXPRESSED OR INFERRED ON ALL SUCH MATTERS. FURTHER, NO OPINION IS RENDERED AS TO ANY VIOLATION OF ANY FEDERAL, STATE, OR REGULATORY LAWS OR ANY LOCAL ORDINANCE RELATED TO THE INFORMATION SHOWN ON THIS PLAN AND THE ENGINEER/ARCHITECT IS IN NO WAY LIABLE FOR ANY VIOLATION OF SUCH ENVIRONMENTAL LAWS SHOULD SUCH EXIST.



1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NCDOT 2012 STANDARD SPECIFICATIONS AND DETAIL DRAWINGS.
2. CONCRETE MIX DESIGN SHALL BE CLASS A, AIR ENTRAINED, NON-VIBRATORY MIX AND SHALL BE A STANDARD NCDOT APPROVED MIX DESIGN.
3. WHEN NECESSARY, RELOCATE ROADWAY SIGNS.
4. ADJUST UTILITIES, VALVES, METER BOXES AND MANHOLES AS REQUIRED TO MATCH SIDEWALK/SHOULDER GRADE.
5. ALL SIDEWALKS SHALL BE IN COMPLIANCE WITH ADA REQUIREMENTS.
6. USE HIGH EARLY STRENGTH CONCRETE FOR ALL DRIVEWAYS.

(SEE SHEET 2 FOR ADDITIONAL STORM DRAINAGE INFORMATION)



















**SEE SHEET 14.2 FOR CONSTRUCTION SEQUENCE**

\_\_\_\_\_

HORIZONTAL ALIGNMENT CURVE DATA								
CURVE #	DEG OF CURVE	DELTA	LENGTH	TANGENT DIST	RADIUS	PI	PC	PT
C1	233°51'37"	46°21'33"	20.68	11.00	24.50	0+18.58	0+07.58	0+28.36
		172°40'55"				0+47.17 LB 0+45.38 LA		
		179°55'38"				0+77.95		
		179°46'02"				1+30.13		
C2	286°28'44"	50°38'38"	17.68	9.46	20.00	1+94.57	1+85.10	2+02.78
C3	286°28'44"	37°53'11"	13.22	6.86	20.00	2+16.25	2+09.38	2+22.61
C4	286°28'44"	13°57'18"	4.87	2.45	20.00	3+03.28	3+00.84	3+05.71
C5	286°28'44"	15°14'28"	5.32	2.68	20.00	3+14.46	3+11.78	3+17.10
		164°51'53"				4+45.91		

REV. 8/24/15 PER NCDOT COMMENTS  
REV. 7/31/15 PER NCDOT COMMENTS  
REV. 4/1/15 ADDED E.C. DEVICES @ EX. INLETS  
& REVISED NORTH ARROW  
REV. 3/13/15 ADDED LB/LA STATIONS  
REV. 1/27/15 PER NCDOT COMMENTS

3

- ### LEGEND
- |  |                        |  |                     |
|--|------------------------|--|---------------------|
|     | EIP                    |       | CLEAN OUT           |
|     | CALCULATED POINT       |       | CURB INLET          |
|     | LAMP POST              |       | GRATE INLET         |
|     | SANITARY SEWER MANHOLE |       | YARD INLET          |
| PP  | POWER POLE             | MW    | MONITORING WELL     |
| LP  | LIGHT POLE             |       | LANDSCAPE LIGHT     |
|     | WATER METER            |       | BOLLARDS            |
|     | WATER VALVE            | GTS   | GAS TESTING STATION |
|     | FIRE HYDRANT           | TPED  | TELEPHONE PEDESTAL  |

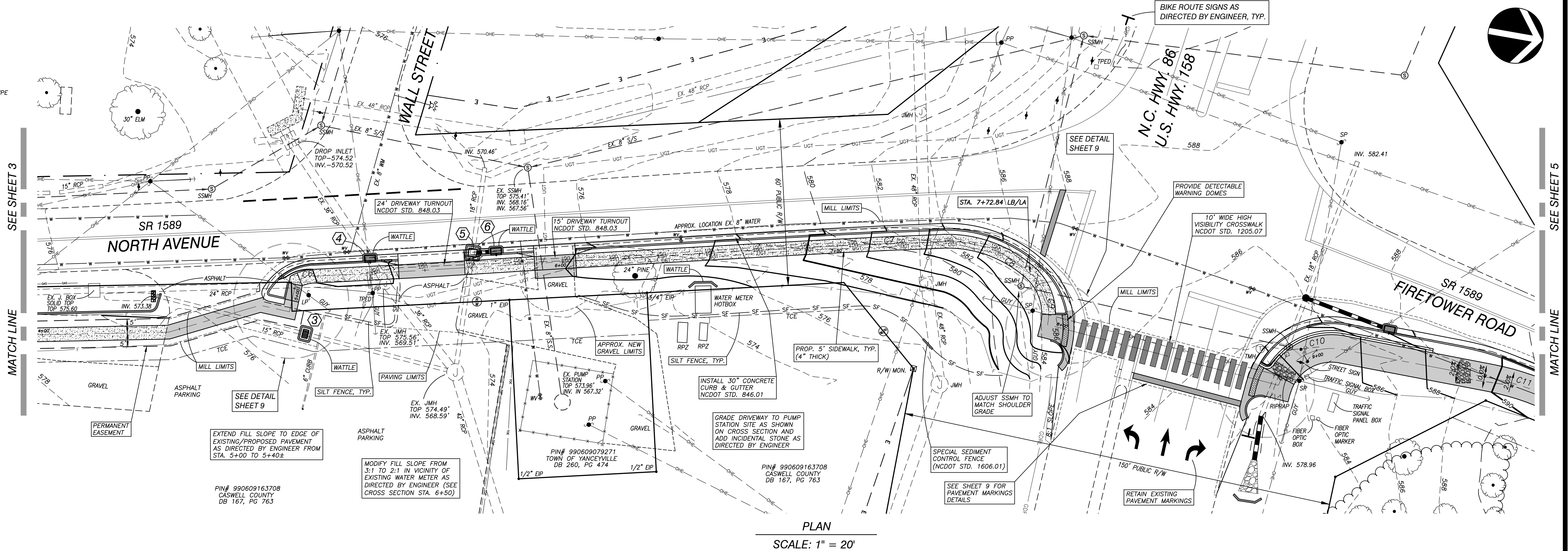


THIS PLAN DOES NOT PURPORT TO SHOW ALL EXISTING UTILITIES, LINES, APPURTENANCES, ETC., AND THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, PIPES, VALVES, ETC. AS SHOWN ARE IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER/ARCHITECT. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES, LINES, PIPES, ETC. BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, PIPES AND VALVES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY CONFLICTS WITH EXISTING AND PROPOSED FACILITIES TO DETERMINE IF AN ITEM WILL NEED TO BE RELOCATED.

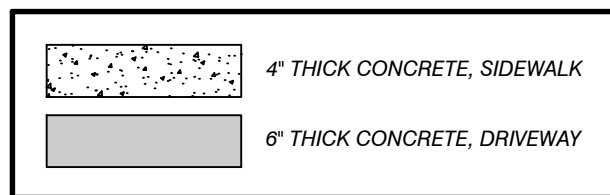
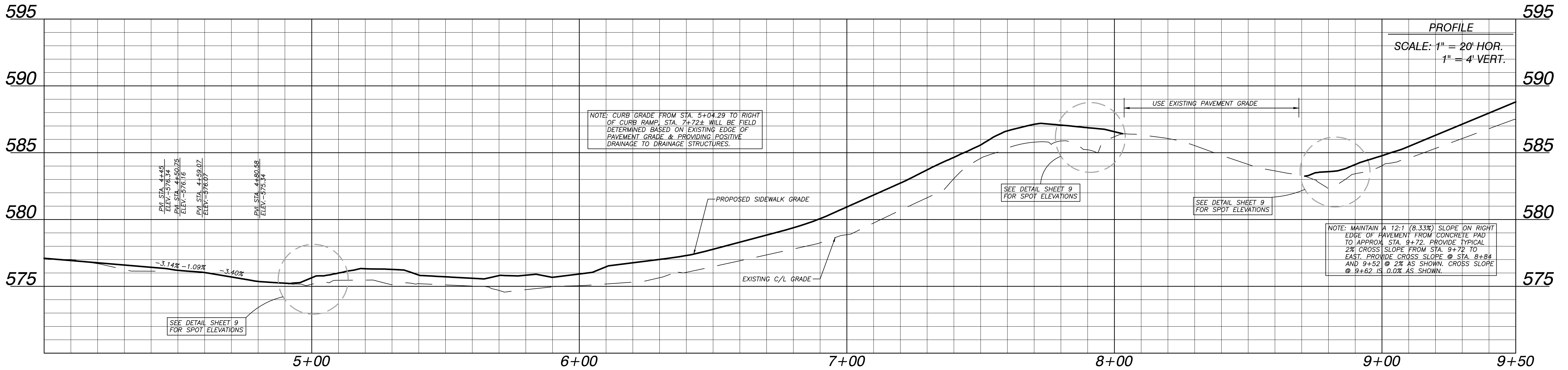
THE ENGINEER/ARCHITECT HAS MADE NO EXAMINATION TO DETERMINE WHETHER ANY HAZARDOUS OR TOXIC MATERIALS ARE PRESENT OR CONTAINED IN, UNDER, OR ON THE SUBJECT PROPERTY OR ITS WATERS, OR IF ANY HAZARDOUS OR TOXIC MATERIALS HAVE CONTAMINATED THIS OR OTHER PROPERTIES OR ITS WATERS IN ANY WAY WHATSOEVER. NO SUB-SURFACE EXAMINATION OF ANY TYPE HAS BEEN MADE BY THE ENGINEER/ARCHITECT, AND ACCORDINGLY, NO OPINION IS EXPRESSED OR INFERRED ON ALL SUCH MATTERS. FURTHER, NO OPINION IS RENDERED AS TO ANY VIOLATION OF ANY ENVIRONMENTAL LAWS OR REGULATIONS, EITHER FEDERAL, STATE, OR LOCAL, RELATED TO THE INFORMATION SHOWN ON THIS PLAN AND THE ENGINEER/ARCHITECT IS IN NO WAY LIABLE FOR ANY VIOLATION OF SUCH ENVIRONMENTAL LAWS SHOULD SUCH EXIST.

STRUCTURE #	NCDOT STD. # /REMARKS	TYPE
③	840.15	
④	840.01	F
⑤	840.41	
⑥	840.01	E

(SEE SHEET 2 FOR ADDITIONAL STORM DRAINAGE INFORMATION)



PLAN  
SCALE: 1" = 20'



#### LEGEND

- |    |                        |      |                    |
|----|------------------------|------|--------------------|
| ○  | EIP                    | ○    | CLEAN OUT          |
| ×  | CALCULATED POINT       | ○    | CURB INLET         |
| ⊙  | LAMP POST              | ▢    | GRATE INLET        |
| ⊙  | SANITARY SEWER MANHOLE | ▢    | YARD INLET         |
| PP | POWER POLE             | ■    | MONITORING WELL    |
| LP | LIGHT POLE             | ○    | LANDSCAPE LIGHT    |
| WM | WATER METER            | ○    | BOLLARDS           |
| WV | WATER VALVE            | ○    | GTS                |
| ○  | FIRE HYDRANT           | TPED | TELEPHONE PEDESTAL |

#### CONCRETE SIDEWALK NOTES:

- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NCDOT 2012 STANDARD SPECIFICATIONS AND DETAIL DRAWINGS.
- CONCRETE MIX DESIGN SHALL BE CLASS A, AIR ENTRAINED, NON-VIBRATORY MIX AND SHALL BE A STANDARD NCDOT APPROVED MIX DESIGN.
- WHEN NECESSARY, RELOCATE ROADWAY SIGNS.
- ADJUST UTILITIES, VALVES, METER BOXES AND MANHOLES AS REQUIRED TO MATCH SIDEWALK/SHOULDER GRADE.
- ALL SIDEWALKS SHALL BE IN COMPLIANCE WITH ADA REQUIREMENTS.
- USE HIGH EARLY STRENGTH CONCRETE FOR ALL DRIVEWAYS.

SEE CROSS SECTION SHEETS 10.1-10.4  
FOR ADDITIONAL INFORMATION

SEE SHEET 14.2 FOR CONSTRUCTION SEQUENCE

TOTAL DISTURBED AREA - 2.25 ACRES ±

HORIZONTAL ALIGNMENT CURVE DATA							
CURVE #	DEG OF CURVE	DELTA	LENGTH	TANGENT DIST	RADIUS	PI	PC
		151°12'58"				4+80.58	
		90°00'00"				4+91.45	
C6	358°05'55"	23°46'07"	6.64	3.37	16.00	5+06.29	5+02.93
		179°30'45"				5+47.22	
		179°50'22"				5+90.80	
		179°50'49"				6+38.27	
C7	2°25'44"	1°19'14"	54.36	27.18	2358.99	7+11.20	6+84.02
C8	125°55'29"	4°32'39"	34.46	18.10	45.50	7+56.49	7+38.38
C9	286°28'44"	59°56'40"	20.92	11.53	20.00	7+84.37	7+72.84
		105°09'30"				7+93.76	



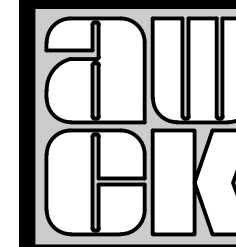
REV. 8/24/15 PER NCDOT COMMENTS  
REV. 7/29/15 PER NCDOT COMMENTS  
REV. 4/8/15 ADDED WATTLE BELOW STRUCTURE NO. 10  
REV. 4/11/15 ADDED WATTLE @ STRUCTURE NO. 5  
& REVISED NORTH ARROW  
REV. 3/13/15 REVISED PROFILE  
REV. 1/27/15 PER NCDOT COMMENTS

NCDOT PROJECT NO. EB-3314 E

PROPOSED SIDEWALK IMPROVEMENTS FOR

## TOWN OF YANCEYVILLE

YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC



alley, williams, carmen & king, inc.  
ENGINEERS, ARCHITECTS & SURVEYORS  
740 chapel hill road p.o. box 1179  
burlington, n.c. 27215 336/226-5534  
Firm's Engineering License No. F-0203

DATE: 8/15/14  
DRAWN BY: WDF  
CHECKED BY: MDR

NORTH AVENUE  
SIDEWALK &  
FIRETOWER ROAD  
MULTI-USE PATH  
(FROM CHURCH STREET TO  
±2400' NORTH OF NC HWY 88N)

JOB NO. 13069  
DWG NAME: 13069(10153)BASE.DWG  
SHEET NO. 4



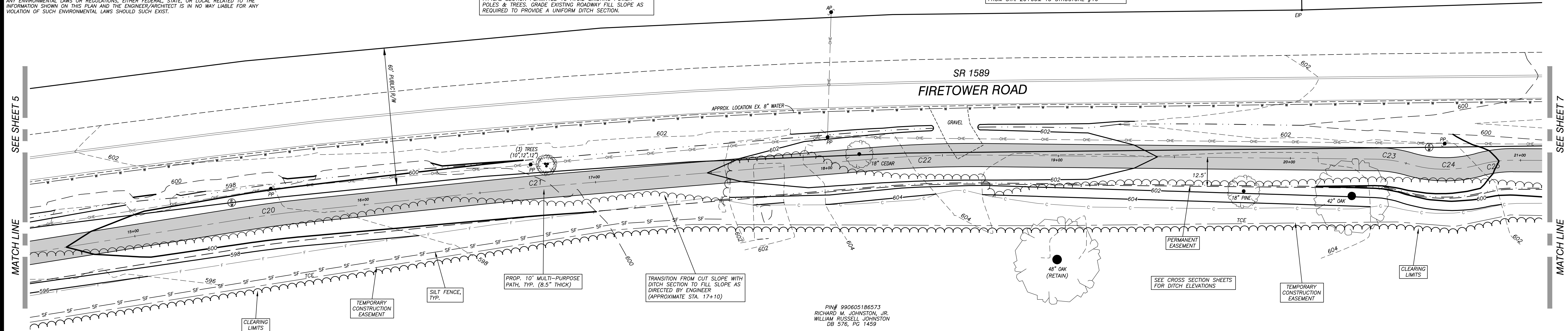




THE ENGINEER/ARCHITECT HAS MADE NO EXAMINATION TO DETERMINE WHETHER ANY HAZARDOUS OR TOXIC MATERIALS ARE PRESENT OR CONTAINED IN, UNDER, OR ON THE SUBJECT PROPERTY OR ITS WATERS, OR IF ANY HAZARDOUS OR TOXIC MATERIALS HAVE CONTAMINATED THIS OR OTHER PROPERTIES OR ITS WATERS IN ANY WAY WHATSOEVER. NO SUB-SURFACE EXAMINATION OF ANY TYPE HAS BEEN MADE BY THE ENGINEER/ARCHITECT, AND ACCORDINGLY, NO OPINION IS EXPRESSED OR INFERRED ON ALL SUCH MATTERS. FURTHER, NO OPINION IS RENDERED AS TO ANY VIOLATION OF ANY APPLICABLE FEDERAL, STATE, OR LOCAL REGULATORY STATUTE, OR IN LOCAL LAWS, RELATED TO THE INFORMATION SHOWN ON THIS PLAN AND THE ENGINEER/ARCHITECT IS IN NO WAY LIABLE FOR ANY VIOLATION OF SUCH ENVIRONMENTAL LAWS SHOULD SUCH EXIST.

PROVIDE DITCH FROM STRUCTURE #13 TO STA. 18+45 LT.  
SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION. MAINTAIN  
A MINIMUM DEPTH OF 15.75" BELOW C/L GRADE OF  
MULTI-USE PATH & 7' FROM C/L. MINOR DEVIATIONS FROM  
TYPICAL SECTION PERMITTED TO AVOID EXISTING POWER  
POLES & TREES. GRADE EXISTING ROADWAY FILL SLOPE AS  
REQUIRED TO PROVIDE A UNIFORM DITCH SECTION.

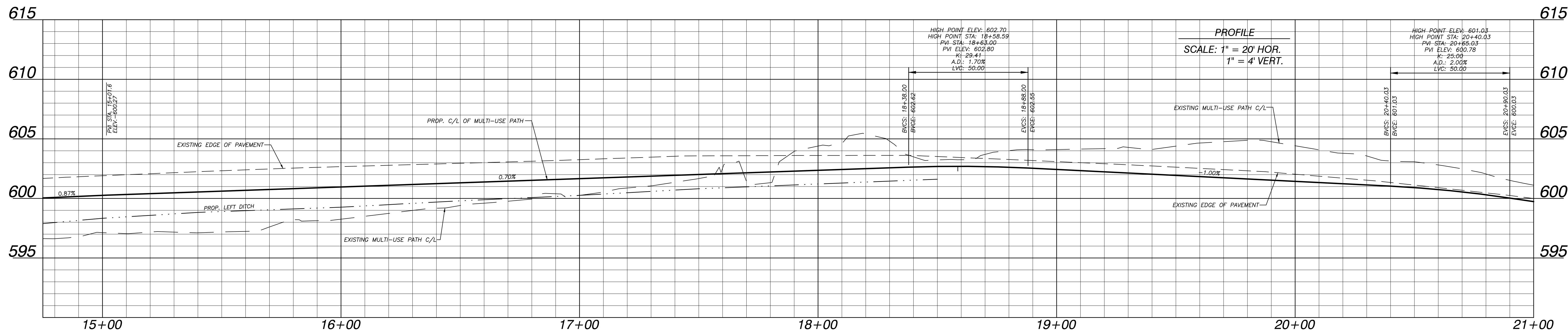
LOWER EXISTING DITCH FROM STA. 18+70± TO 20+00±, PROVIDING A MIN. SLOPE OF 1.0%. SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION. PROVIDE POSITIVE DRAINAGE FROM MULTI-USE PATH EDGE OF PAVEMENT TO EXISTING DITCH FROM STA. 20+00± TO STRUCTURE #16



PLAN

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SCALE: 1" = 20'





















HORIZONTAL ALIGNMENT CURVE DATA								
CURVE #	DEG OF CURVE	DELTA	LENGTH	TANGENT DIST	RADIUS	PI	PC	PT
C20	11°27'33"	3°10'55"	27.77	13.89	500.00	15+60.79	15+46.90	15+74.67
C21	11°27'33"	1°06'19"	9.64	4.82	500.00	16+74.17	16+69.37	16+79.01
C22	11°27'33"	5°20'57"	46.68	23.36	500.00	18+43.67	18+20.31	18+66.99
C23	10°41'02"	15°39'05"	15.02	7.56	55.00	20+44.07	20+36.51	20+51.53
C24	10°41'02"	31°32'48"	30.28	15.54	55.00	20+44.07	20+51.53	20+81.82
C25	10°41'02"	15°39'00"	15.02	7.56	55.00	20+89.37	20+81.82	20+96.84

1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NCDOT 2012 STANDARD SPECIFICATIONS AND DETAIL DRAWINGS.
2. WHEN NECESSARY, RELOCATE ROADWAY SIGNS.
3. ADJUST UTILITIES, VALVES, METER BOXES AND MANHOLES AS REQUIRED TO MATCH ADJACENT GRADE.

DocuSigned by:  
**Mark Reich**  
58637F049ADB4D7...

REV. 8/24/15 PER NCDOT COMMENTS  
REV. 4/1/15 REVISED NORTH ARROW

6

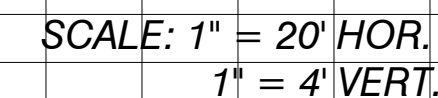
	EIP		CLEAN OUT
	CALCULATED POINT		CURB INLET
	LAMP POST		GRATE INLET
	SANITARY SEWER MANHOLE		YARD INLET
PP 	POWER POLE	MW 	MONITORING WELL
LP 	LIGHT POLE		LANDSCAPE LIGHT
	WATER METER	B* 	BOLLARDS
	WATER VALVE	GTSD 	GAS TESTING STATION
	FIRE HYDRANT	TPED 	TELEPHONE PEDESTAL



TEMPORARY ROCK  
SILT CHECK TYPE 'B'  
(NCDOT STD. 1633.02)



SCALE: 1" = 20'



REV. 8/24/15 PER NCDOT COMMENTS  
REV. 4/1/15 ADDED E.C. DEVICE @ STRUCTURE NO. 15  
& ADDED E.C. NOTE & REVISED NORTH ARROW

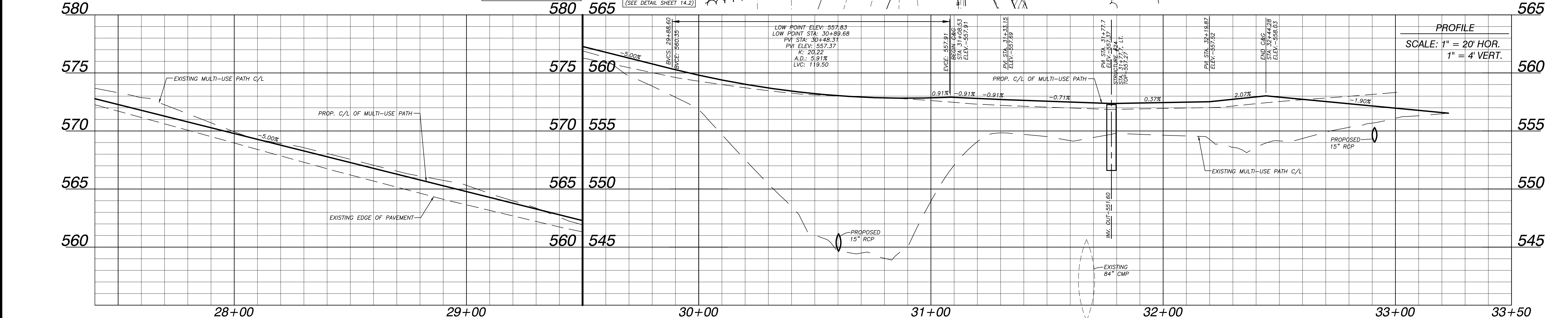
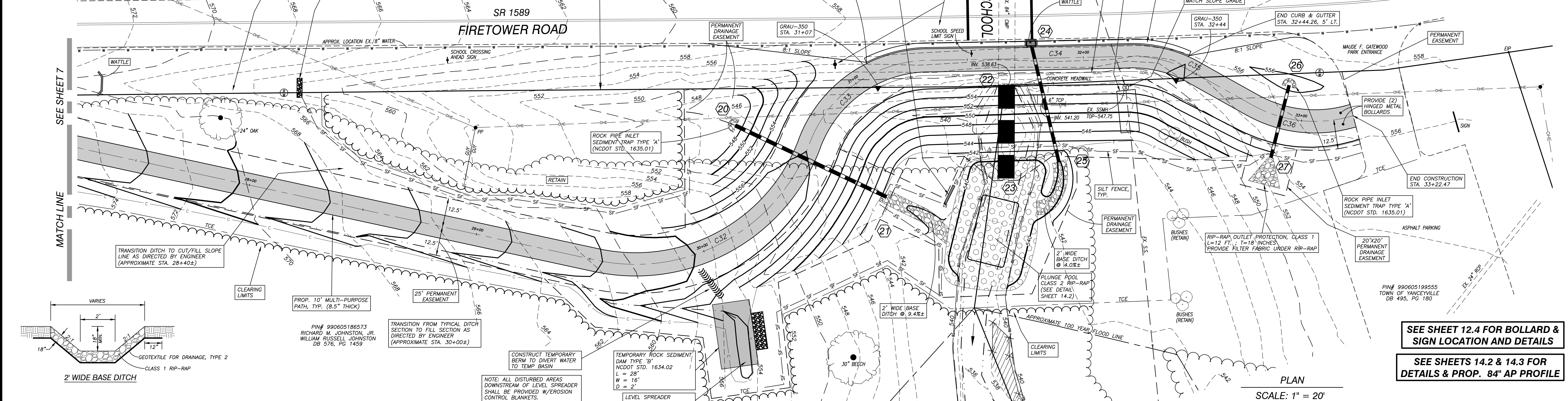
<b>NORTH AVENUE SIDEWALK &amp; FIRETOWER ROAD MULTI-USE PATH</b>  (FROM CHURCH STREET TO ±2400' NORTH OF NC HWY 86N)	<b>JOB NO.</b>	13069
	<b>DWG NAME:</b> 13069(10153)BASE <b>SHEET NO.</b>	7

7



THIS PLAN DOES NOT PURPORT TO SHOW ALL EXISTING UTILITIES, LINES, APPURTENANCES, ETC., AND THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, PIPES, VALVES, ETC. AS SHOWN ARE IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER/ARCHITECT. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES, LINES, PIPES, ETC. BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, PIPES AND VALVES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY CONFLICTS WITH EXISTING AND PROPOSED FACILITIES TO DETERMINE IF AN ITEM WILL NEED TO BE RELOCATED.

THE ENGINEER/ARCHITECT HAS MADE NO EXAMINATION TO DETERMINE WHETHER ANY HAZARDOUS OR TOXIC MATERIALS ARE PRESENT OR CONTAINED IN, UNDER, OR ON THE SUBJECT PROPERTY OR ITS WATERS, OR IF ANY HAZARDOUS OR TOXIC MATERIALS HAVE CONTAMINATED THIS OR OTHER PROPERTIES OR ITS WATERS IN ANY WAY WHATSOEVER. NO SUB-SURFACE EXAMINATION OF ANY TYPE HAS BEEN MADE BY THE ENGINEER/ARCHITECT, AND ACCORDINGLY, NO OPINION IS EXPRESSED OR INFERRED ON ALL SUCH MATTERS. FURTHER, NO OPINION IS RENDERED AS TO ANY VIOLATION OF ANY ENVIRONMENTAL LAWS OR REGULATIONS, EITHER FEDERAL, STATE, OR LOCAL RELATED TO THE INFORMATION SHOWN ON THIS PLAN AND THE ENGINEER/ARCHITECT IS IN NO WAY LIABLE FOR ANY VIOLATION OF SUCH ENVIRONMENTAL LAWS SHOULD SUCH EXIST.



**LEGEND**

○ EIP	○ CLEAN OUT
✱ CALCULATED POINT	○ CURB INLET
⊙ LAMP POST	⊞ GRATE INLET
⊙ SANITARY SEWER MANHOLE	⊞ YARD INLET
PP POWER POLE	○ MONITORING WELL
LP LIGHT POLE	○ LANDSCAPE LIGHT
WM WATER METER	○ BOLLARDS
WV WATER VALVE	○ GAS TESTING STATION
○ FIRE HYDRANT	TPED TELEPHONE PEDESTAL

**STRUCTURE**

#	NCDOT STD. #	REMARKS	TYPE
20		PIPE END	
21		PIPE END	
22		PIPE END	
23		PIPE END	
24	840.01		E
25		PIPE END	
26		PIPE END	
27		PIPE END	

(SEE SHEET 2 FOR ADDITIONAL STORM DRAINAGE INFORMATION)

**HORIZONTAL ALIGNMENT CURVE DATA**

CURVE #	DEG OF CURVE	DELTA	LENGTH	TANGENT DIST	RADIUS	PI	PC	PT
C32	71°37'11"	81°43'45"	114.12	69.21	80.00	30+21.99	29+52.78	30+66.89
C33	104°10'27"	68°39'28"	65.91	37.56	55.00	31+04.45	30+66.89	31+32.80
C34	0°36'59"	0°32'04"	86.74	43.37	9297.38	31+76.17	31+32.80	32+19.54
C35	104°10'27"	30°31'47"	29.31	15.01	55.00	32+34.55	32+19.54	32+48.85
C36	104°10'27"	43°31'35"	41.78	21.96	55.00	32+99.74	32+77.78	33+19.56

**MULTI-USE PATH NOTES:**

- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH NCDOT 2012 STANDARD SPECIFICATIONS AND DETAIL DRAWINGS.
- WHEN NECESSARY, RELOCATE ROADWAY SIGNS.
- ADJUST UTILITIES, VALVES, METER BOXES AND MANHOLES AS REQUIRED TO MATCH ADJACENT GRADE.

**SEE CROSS SECTION SHEETS 10.1-10.4 FOR ADDITIONAL INFORMATION**

**SEE SHEET 14.2 FOR CONSTRUCTION SEQUENCE**

**TOTAL DISTURBED AREA - 2.25 ACRES ±**

**SEE SHEET 12.4 FOR BOLLARD & SIGN LOCATION AND DETAILS**

**SEE SHEETS 14.2 & 14.3 FOR DETAILS & PROP. 84" AP PROFILE**

**NCDOT PROJECT NO. EB-3314 E**

**PROPOSED SIDEWALK IMPROVEMENTS FOR**

**TOWN OF YANCEYVILLE**

YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC

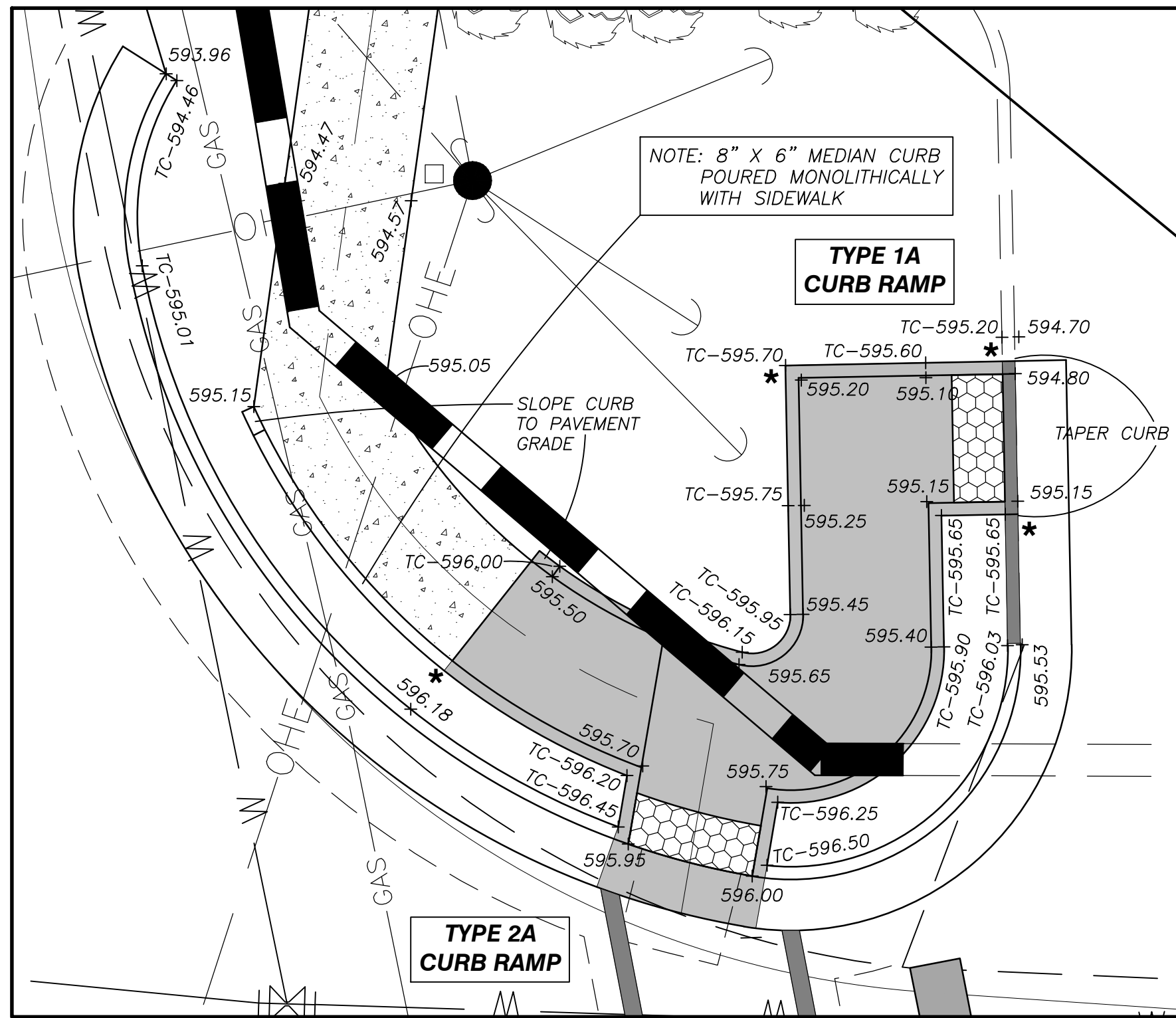
alley, williams, carmen & king, inc.  
ENGINEERS, ARCHITECTS & SURVEYORS  
740 chapel hill road  
burlington, n.c. 27215  
p.o. box 1179  
336/226-5534  
Firm's Engineering License No. F-0203

**DATE:** 8/15/14  
**DRAWN BY:** WDF  
**CHECKED BY:** MDR

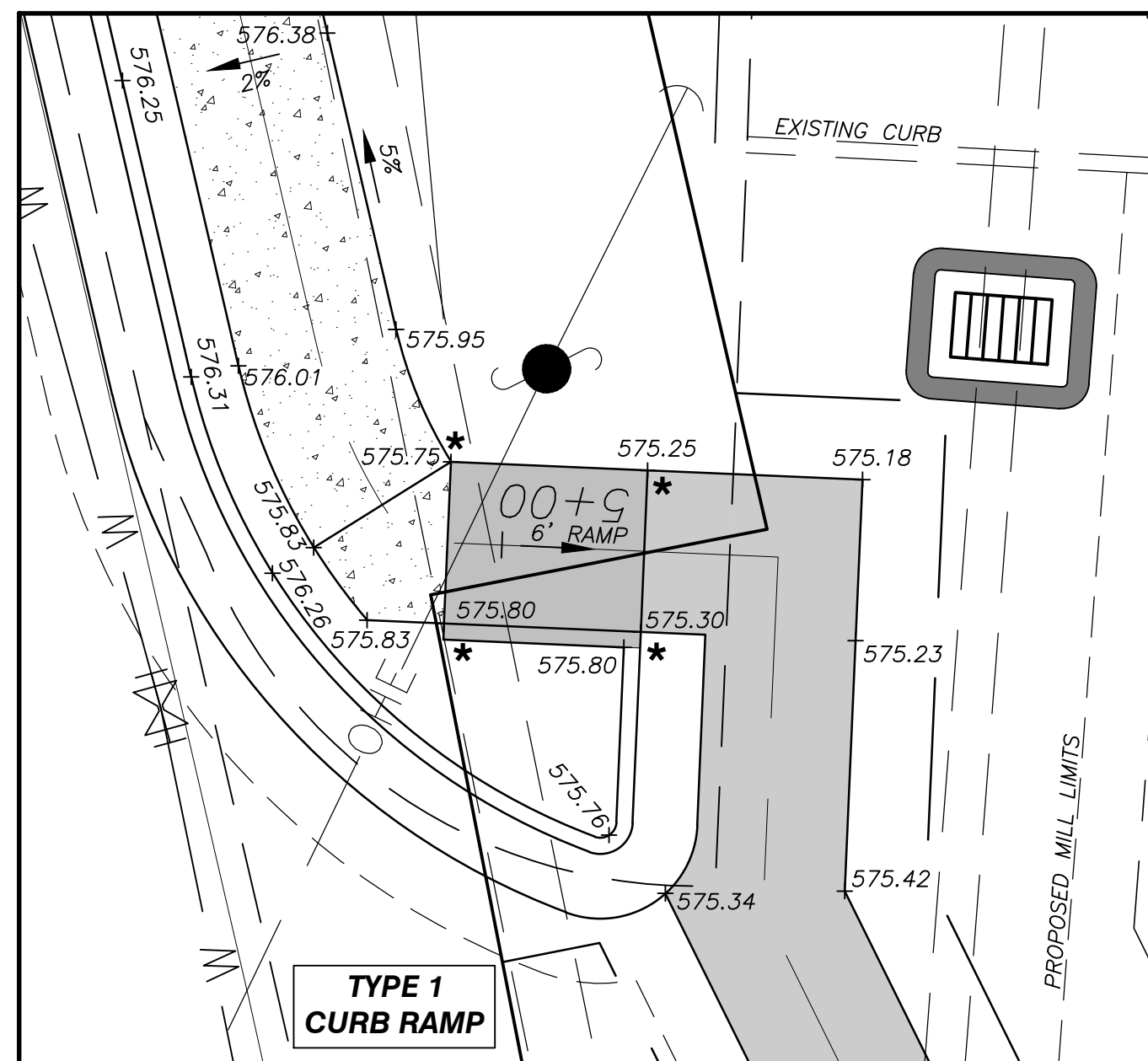
**NORTH CAROLINA PROFESSIONAL SEAL**  
12634  
MARK D. REICH  
ENGINEER

**JOB NO.** 13069  
**DWG NAME:** 13069(10153)BASE.DWG  
**SHEET NO.** 8

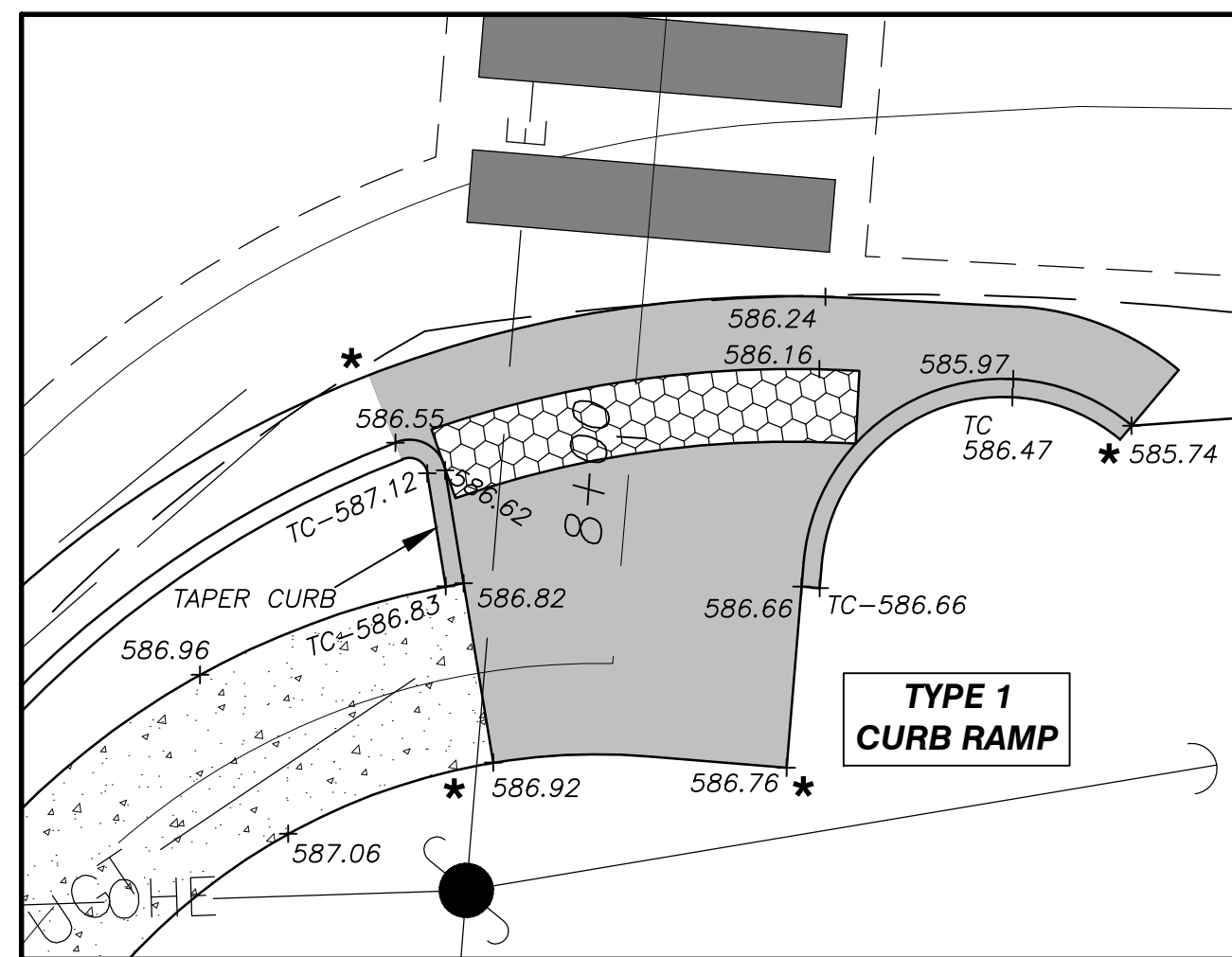




**CURB RAMP STA. 0+00**  
SCALE: 1" = 5'



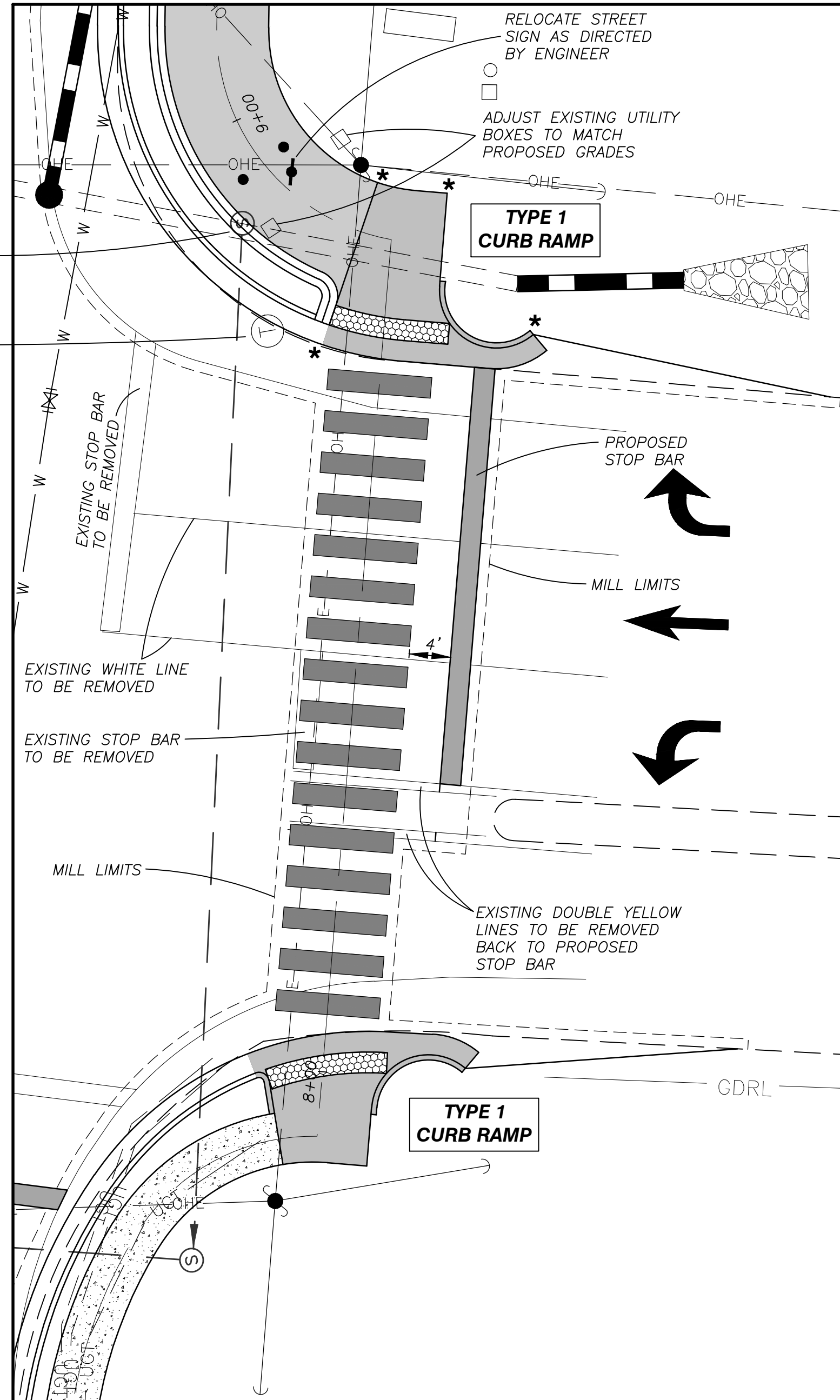
**CURB RAMP STA. 4+96±**  
SCALE: 1" = 5'



**CURB RAMP STA. 8+04±**  
SCALE: 1" = 5'

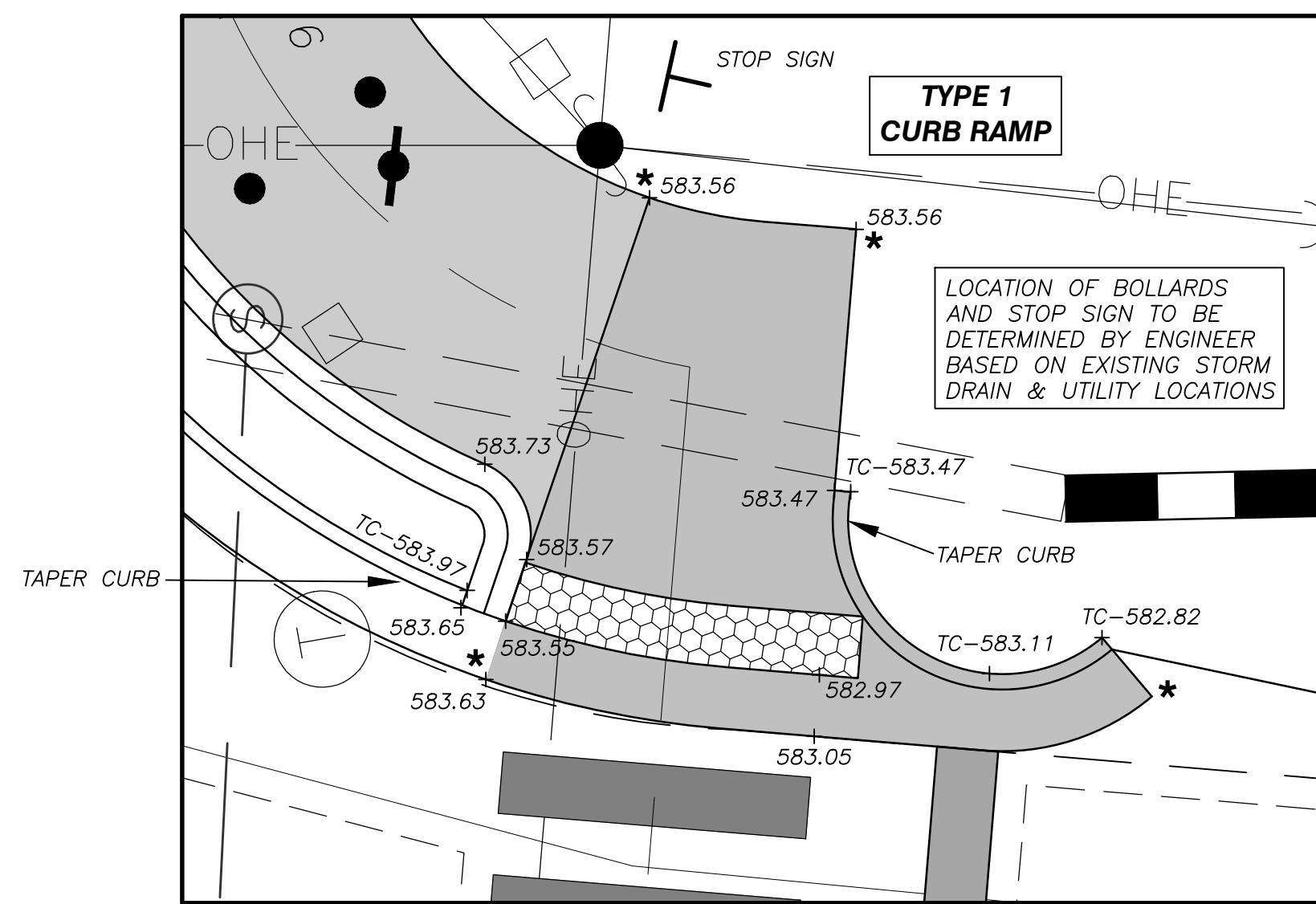
ADJUST EXISTING SSMH TO PROPOSED PAVEMENT GRADE. TERMINATE OR MODIFY CURB TO ALLOW FOR FUTURE ACCESS AS DIRECTED BY ENGINEER

ADJUST EXISTING TELEPHONE MANHOLE TO MATCH PROPOSED GRADE



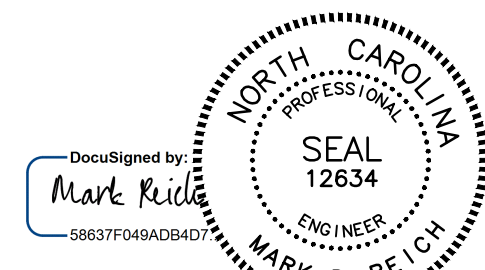
**PAVEMENT MARKING DETAIL**  
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\* CURB RAMP PAY LIMITS

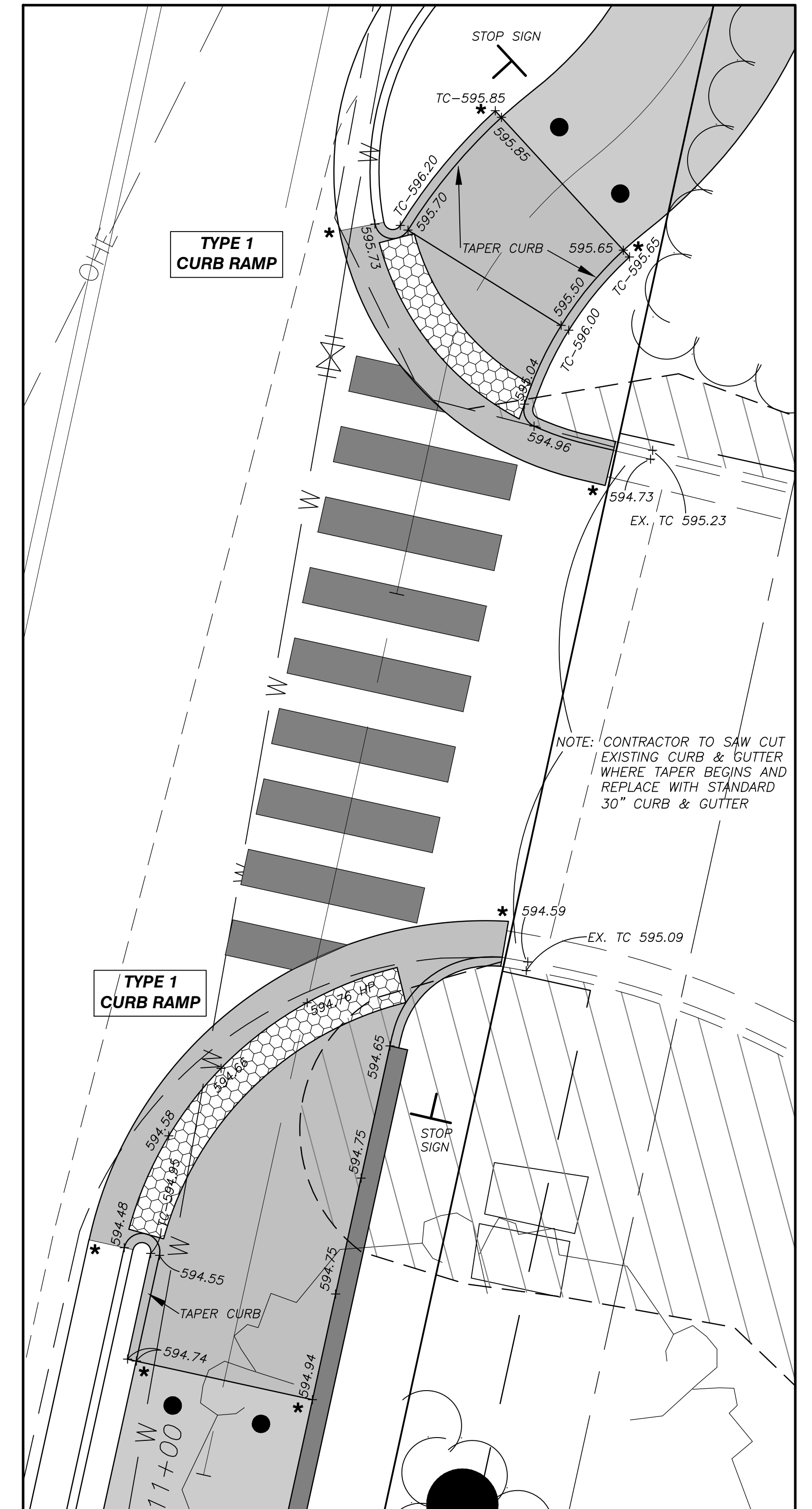


**CURB RAMP STA. 8+69±**  
SCALE: 1" = 5'

NOTE: SEE SHEETS 12.3 & 12.4 FOR ADDITIONAL CURB RAMP DETAILS & NOTES. CURB RAMPs WILL BE PAID FOR AT CONTRACT UNIT PRICE FOR EACH "CURB RAMP" REGARDLESS OF TYPE AND PAY LIMITS AS SHOWN ON DRAWINGS.



REV. 7/31/15 PER NCDOT COMMENTS  
REV. 1/27/15 PER NCDOT COMMENTS



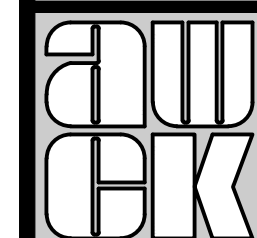
**CURB RAMP STA. 11+05± & STA. 11+75±**  
SCALE: 1" = 5'

NCDOT PROJECT NO. EB-3314 E

PROPOSED SIDEWALK IMPROVEMENTS FOR

**TOWN OF YANCEYVILLE**

YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC



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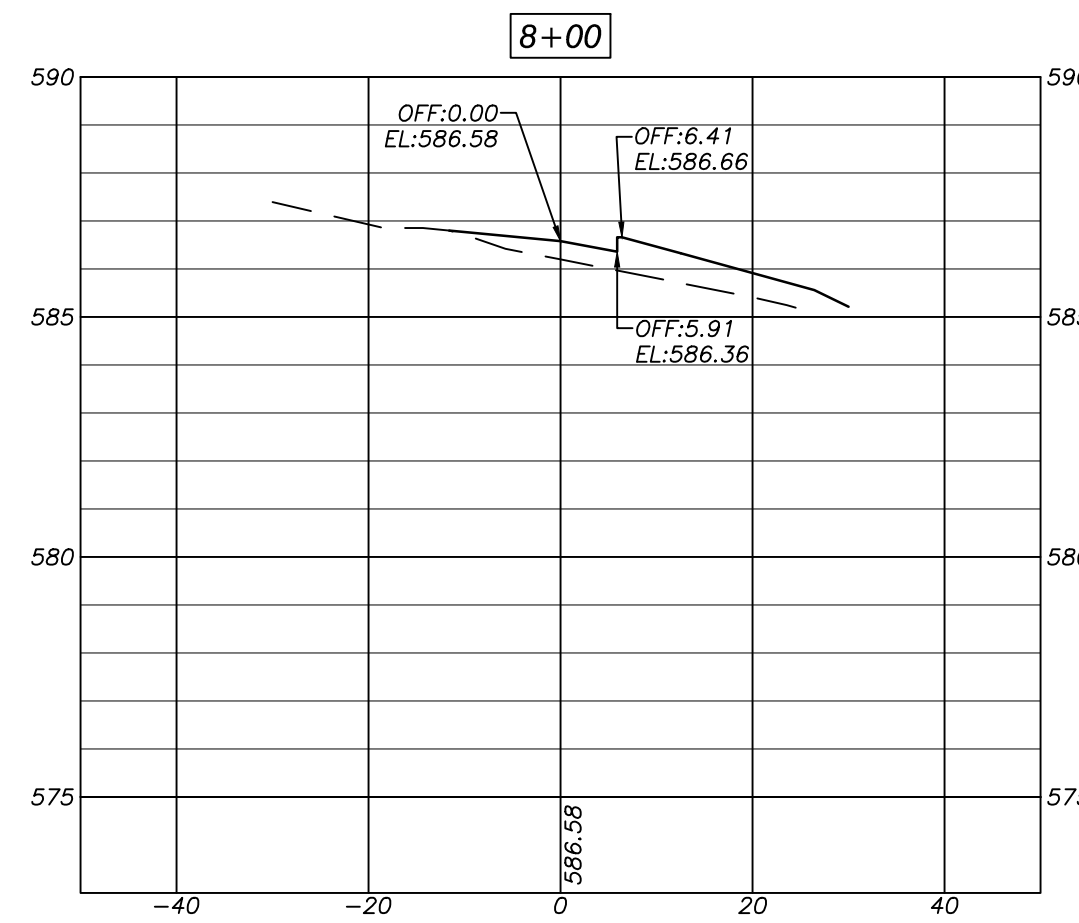
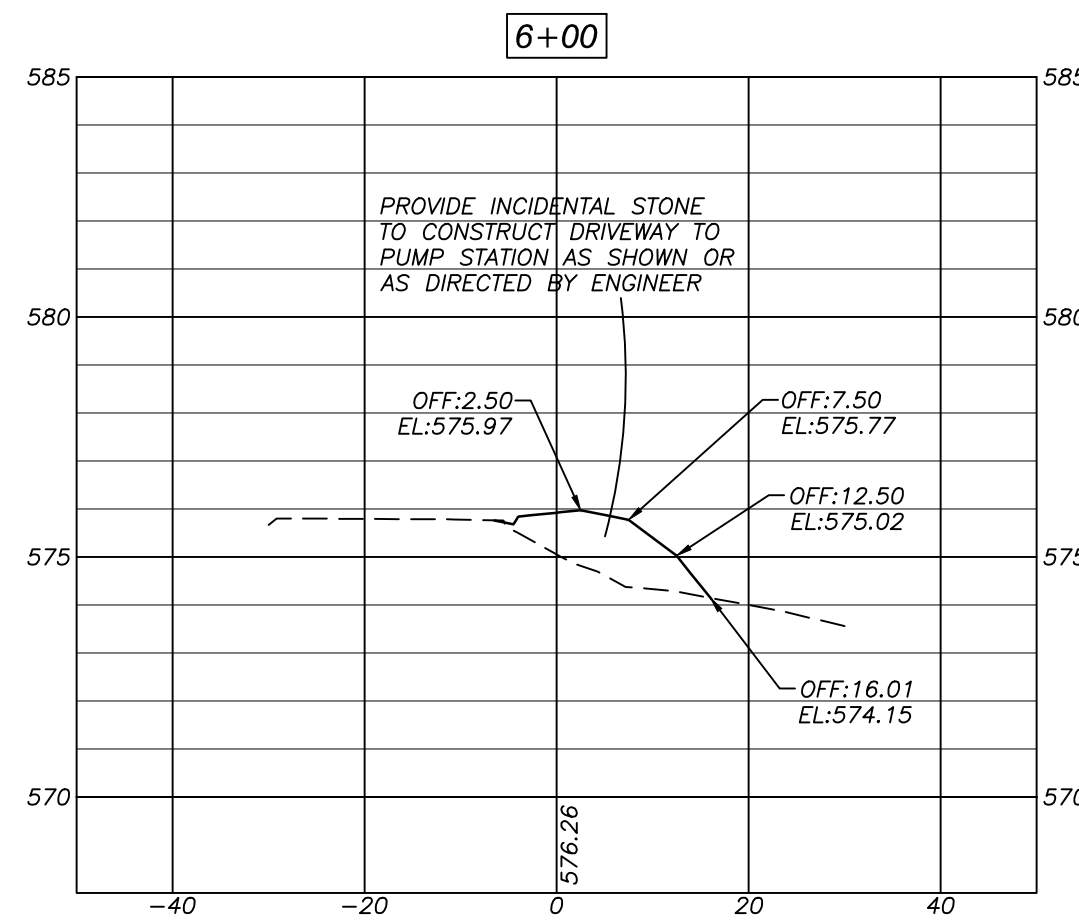
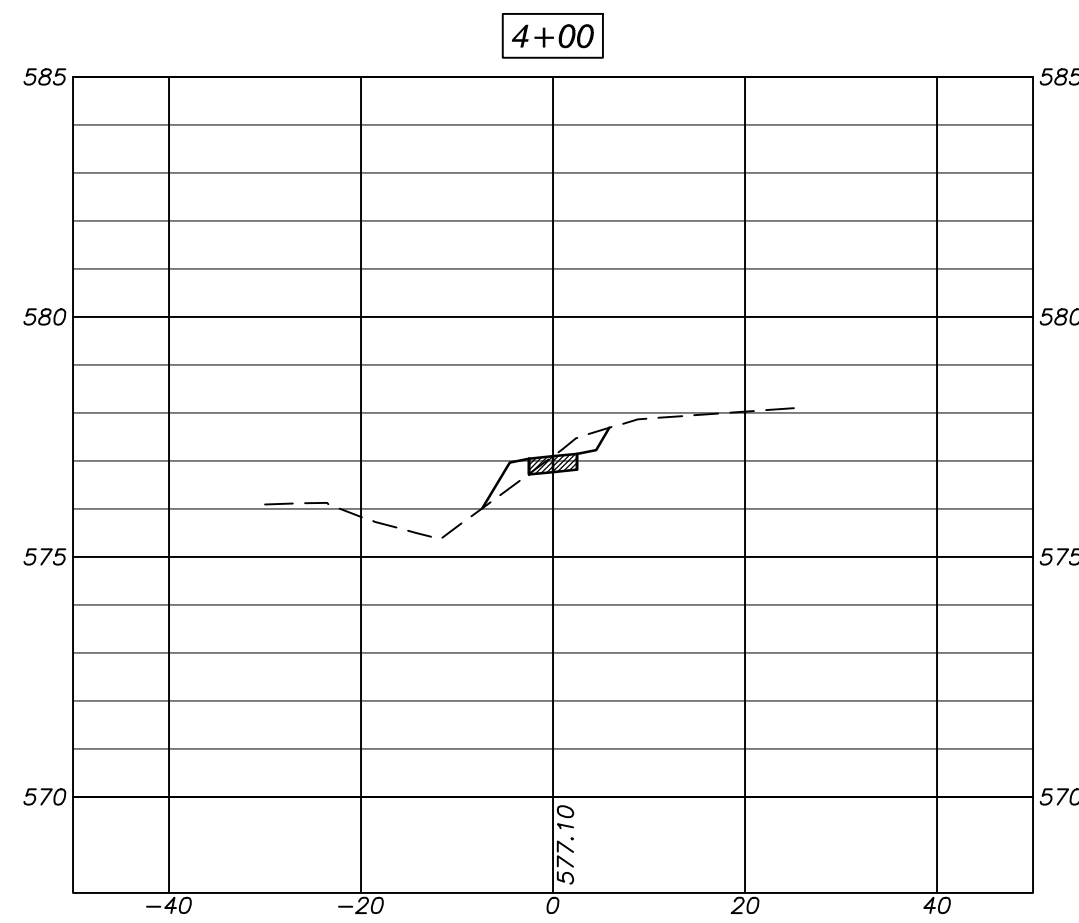
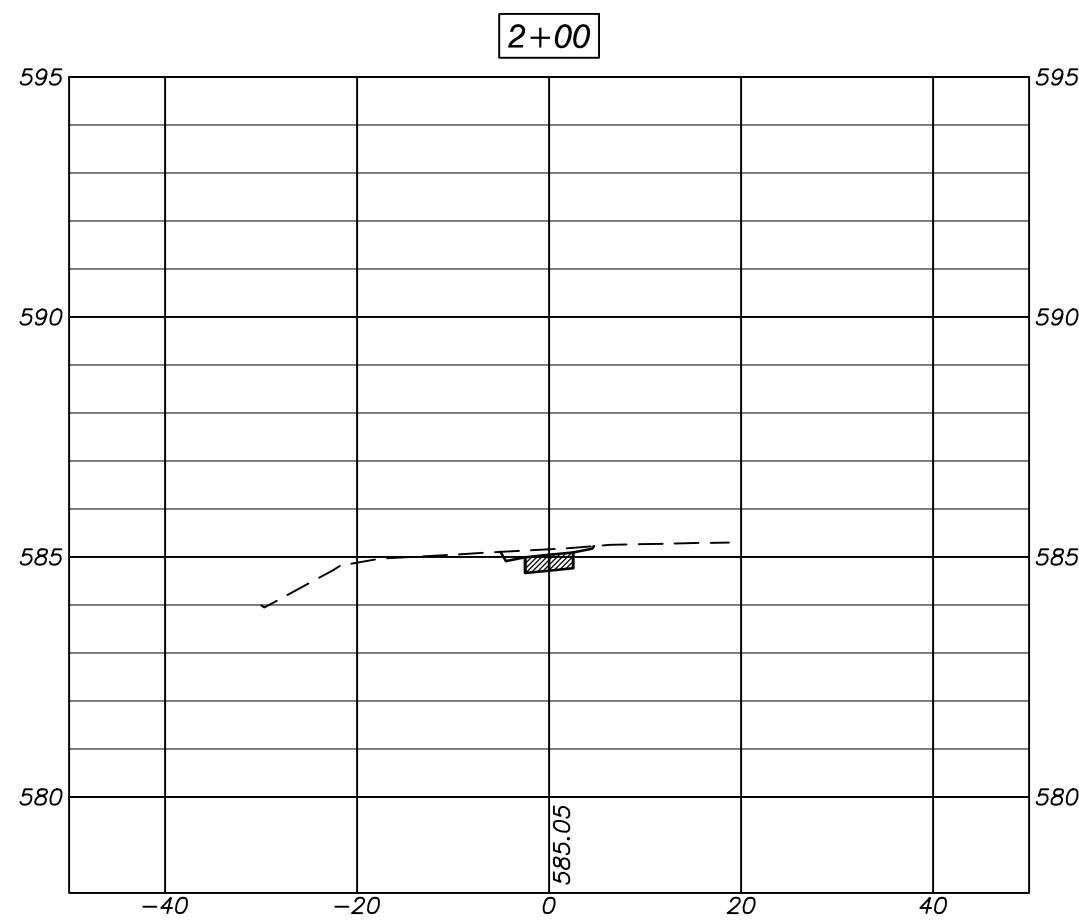
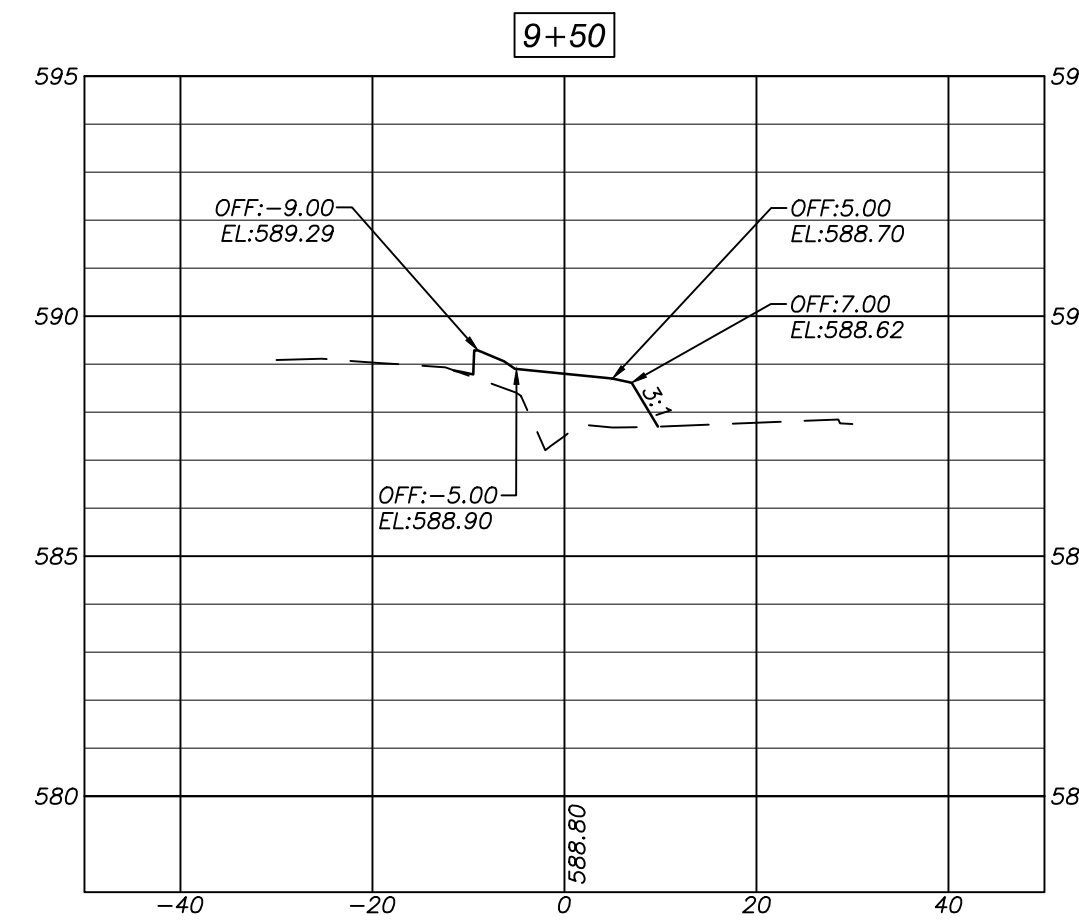
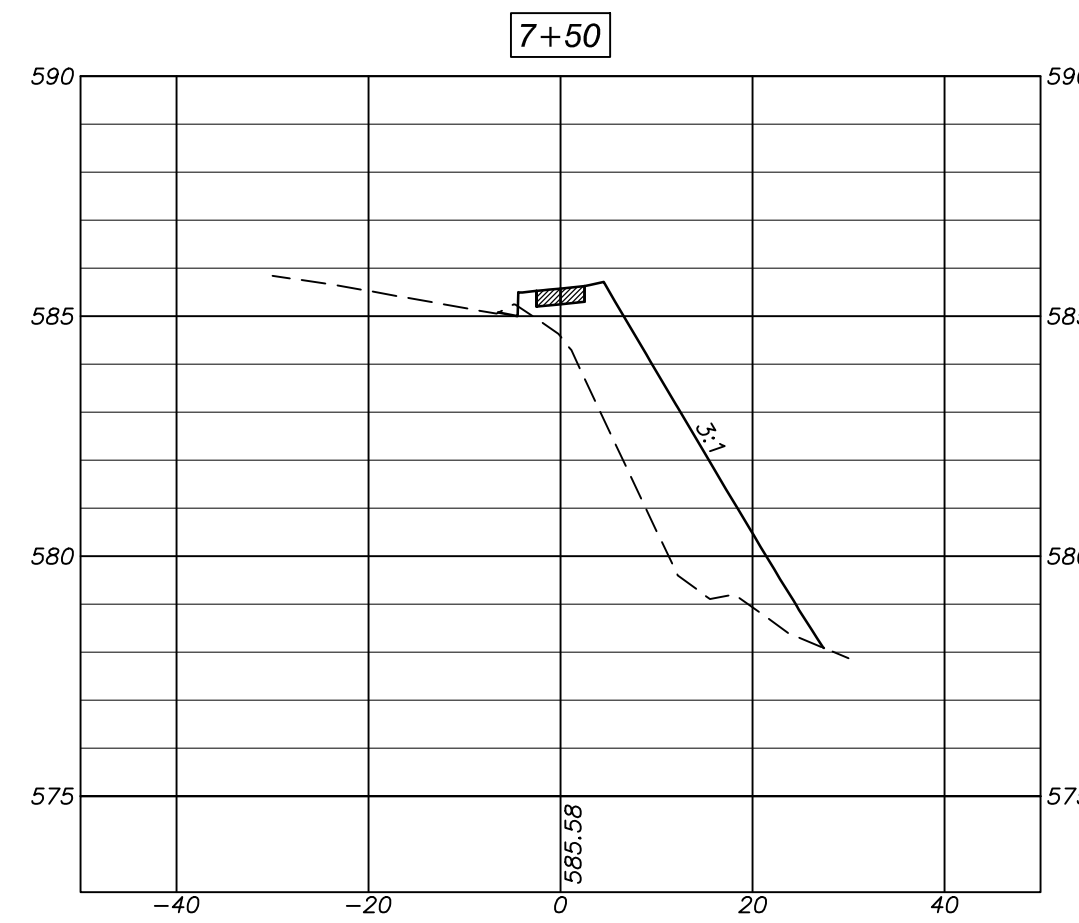
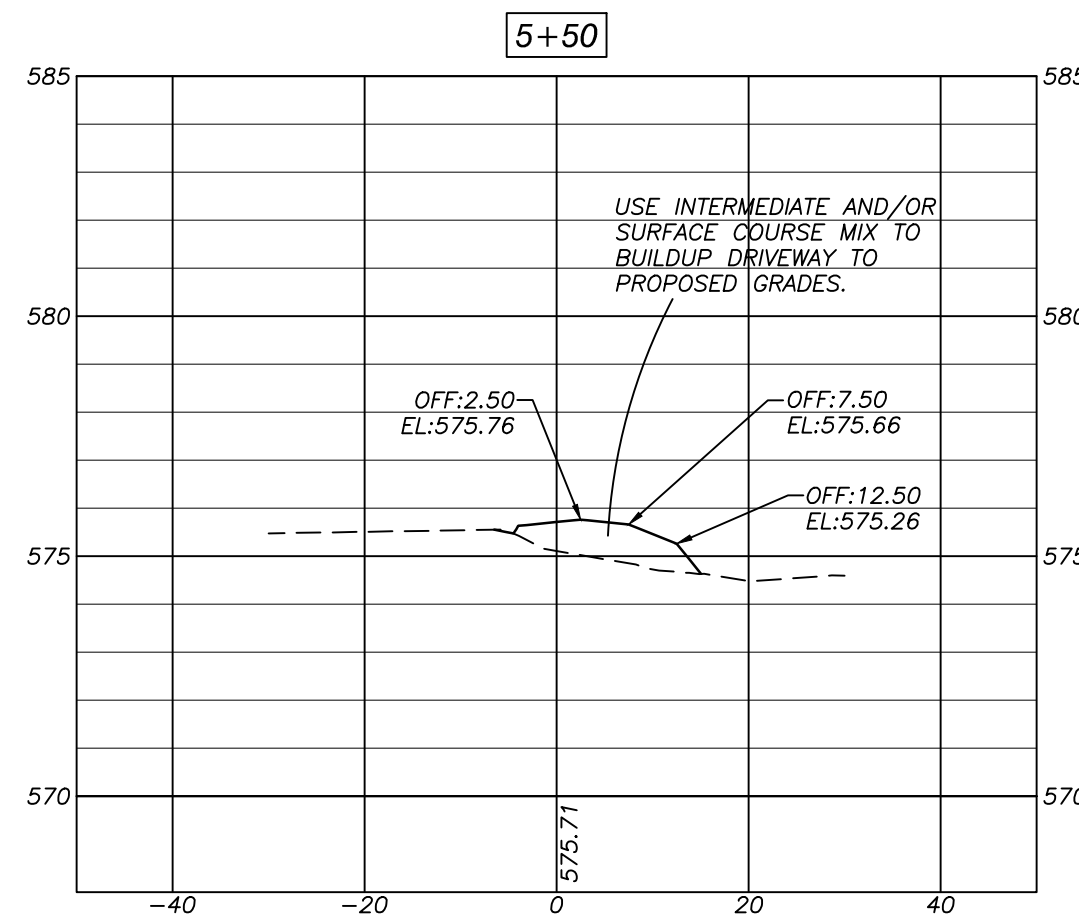
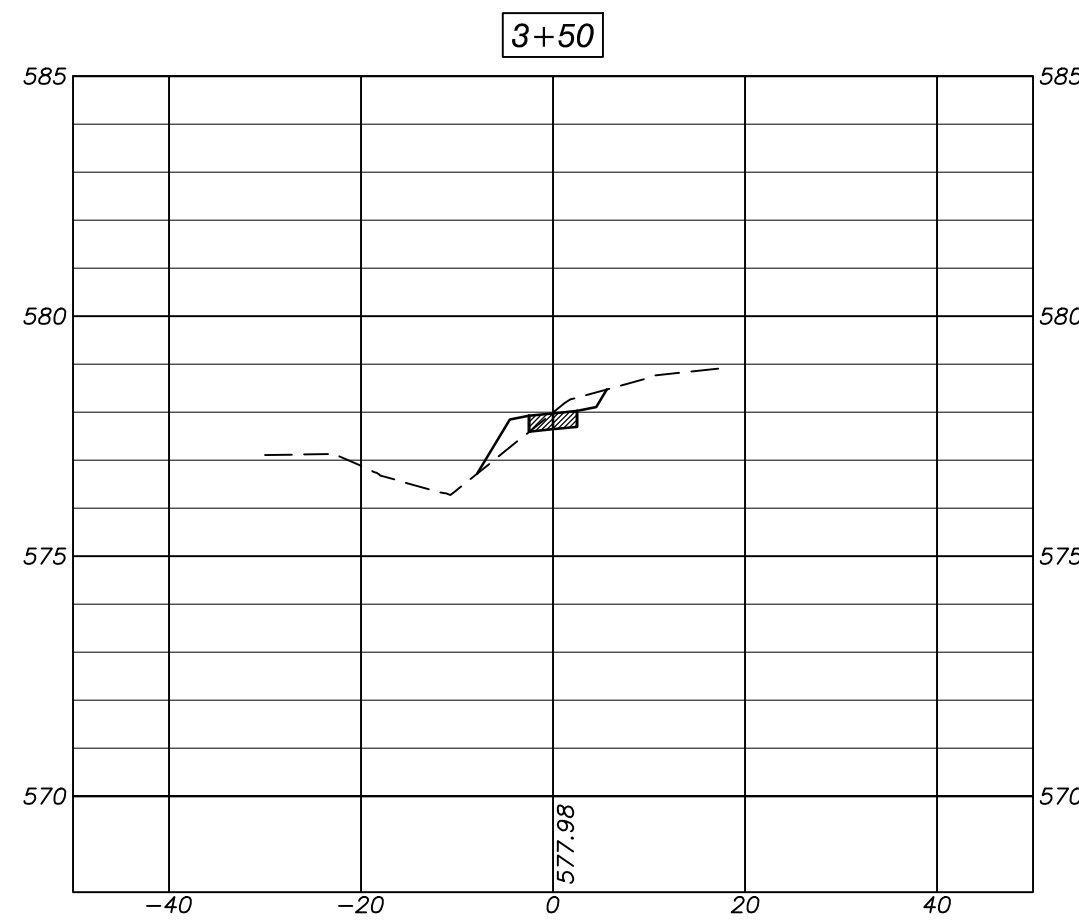
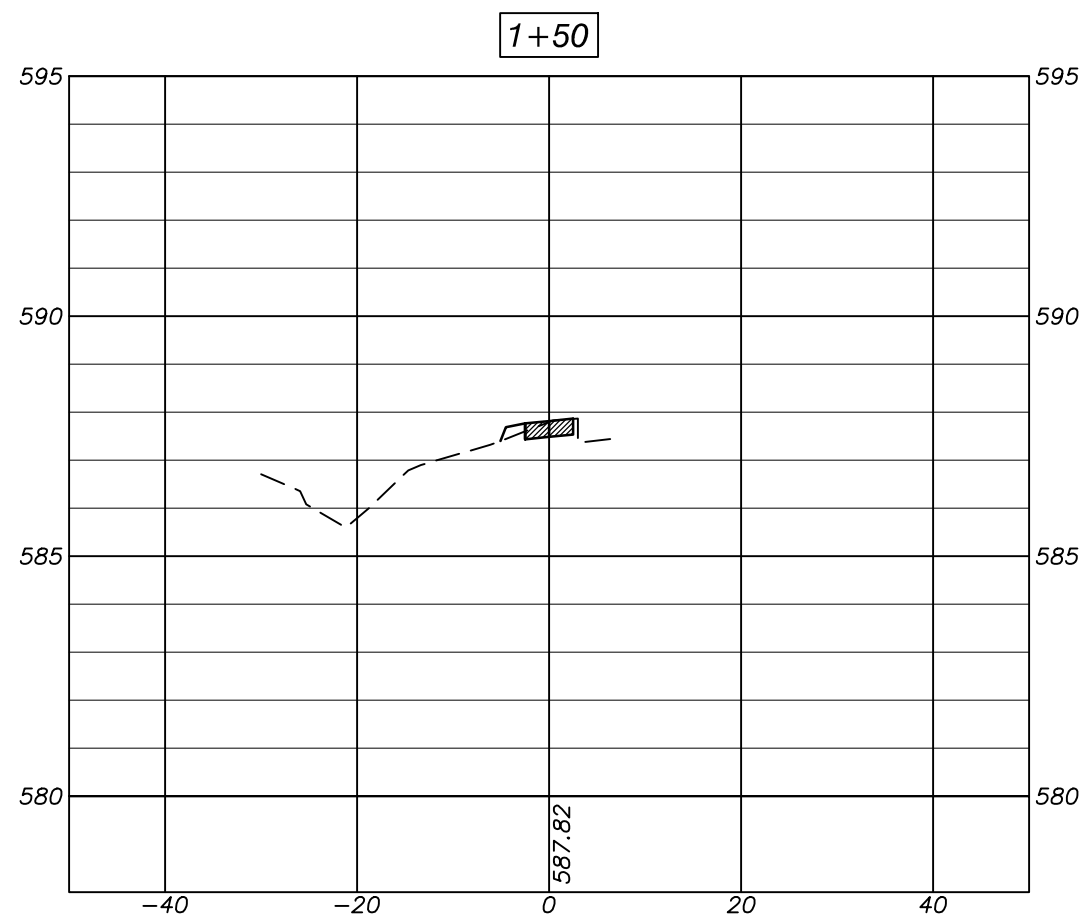
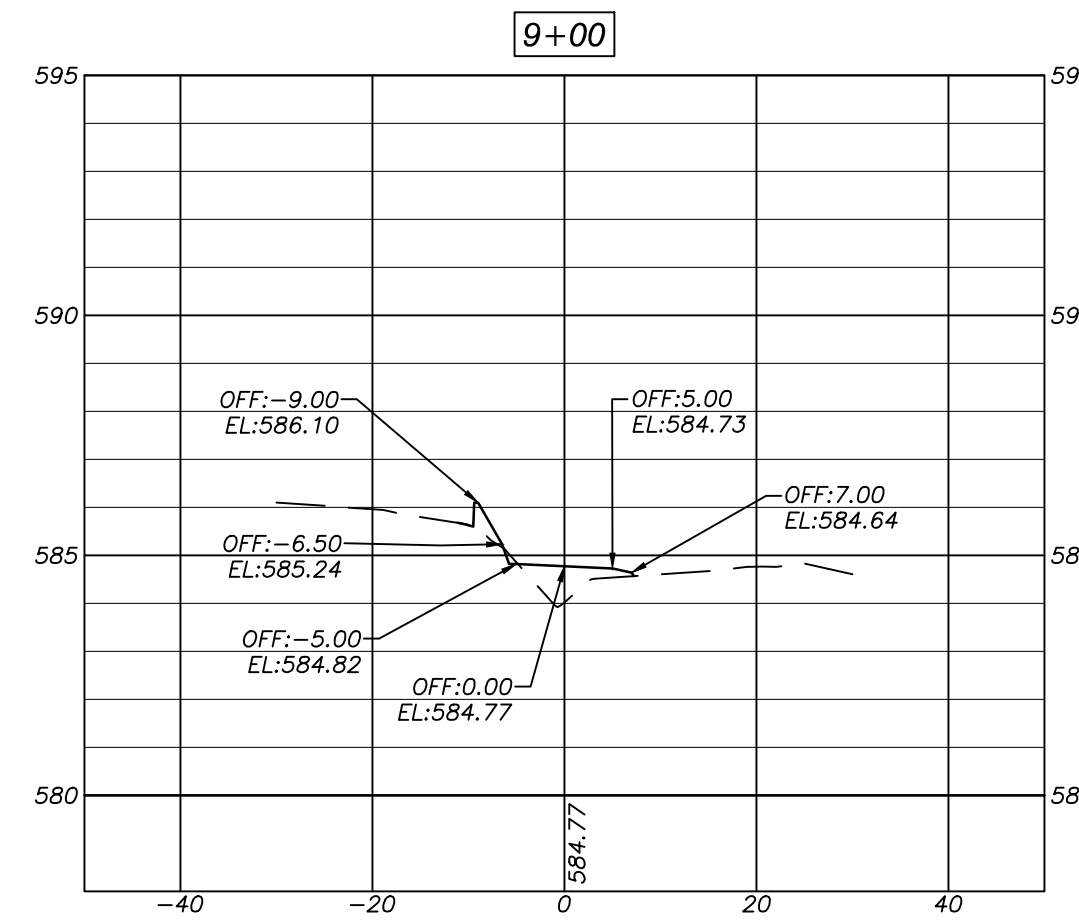
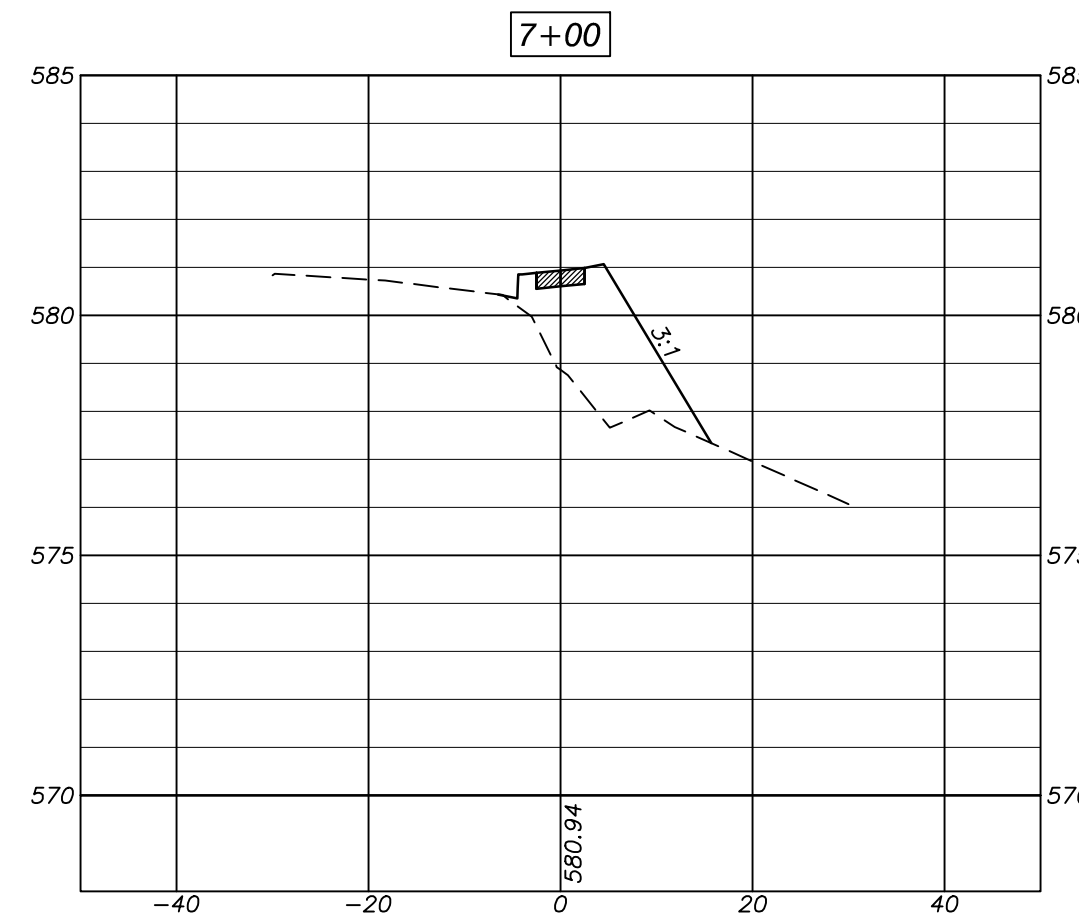
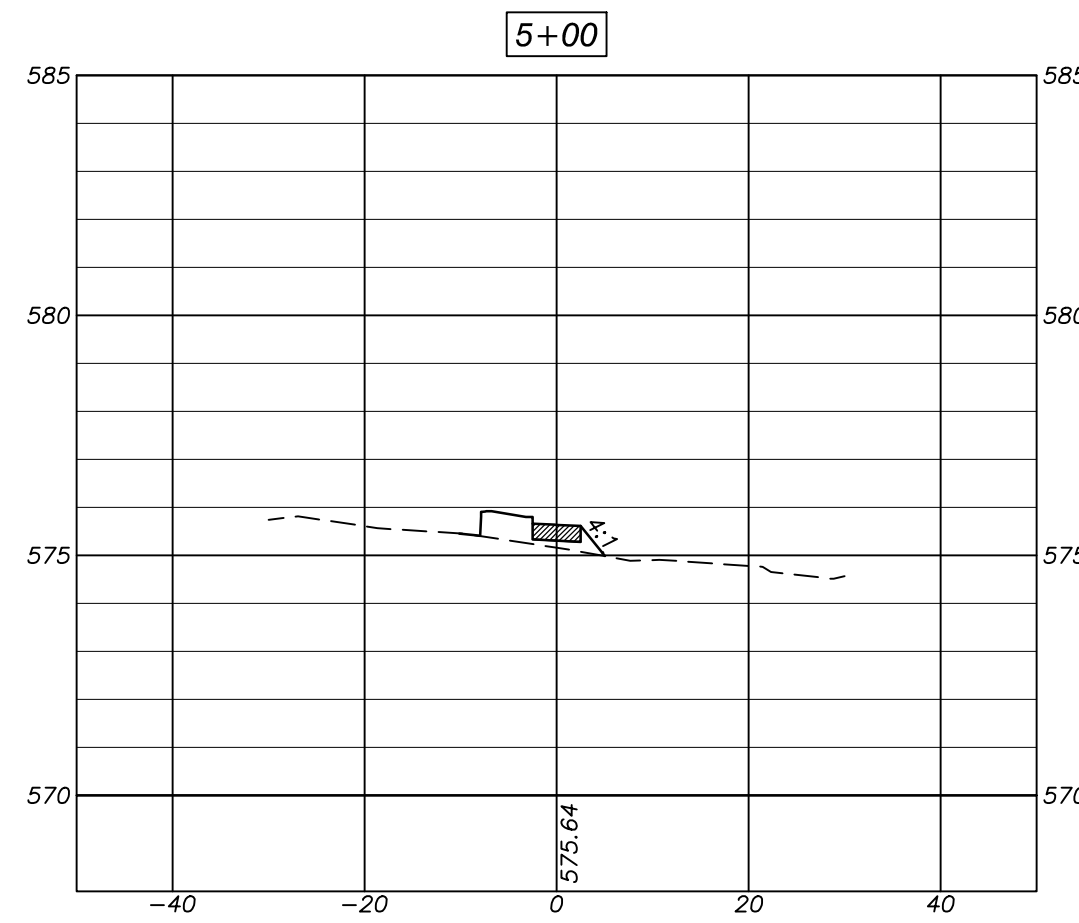
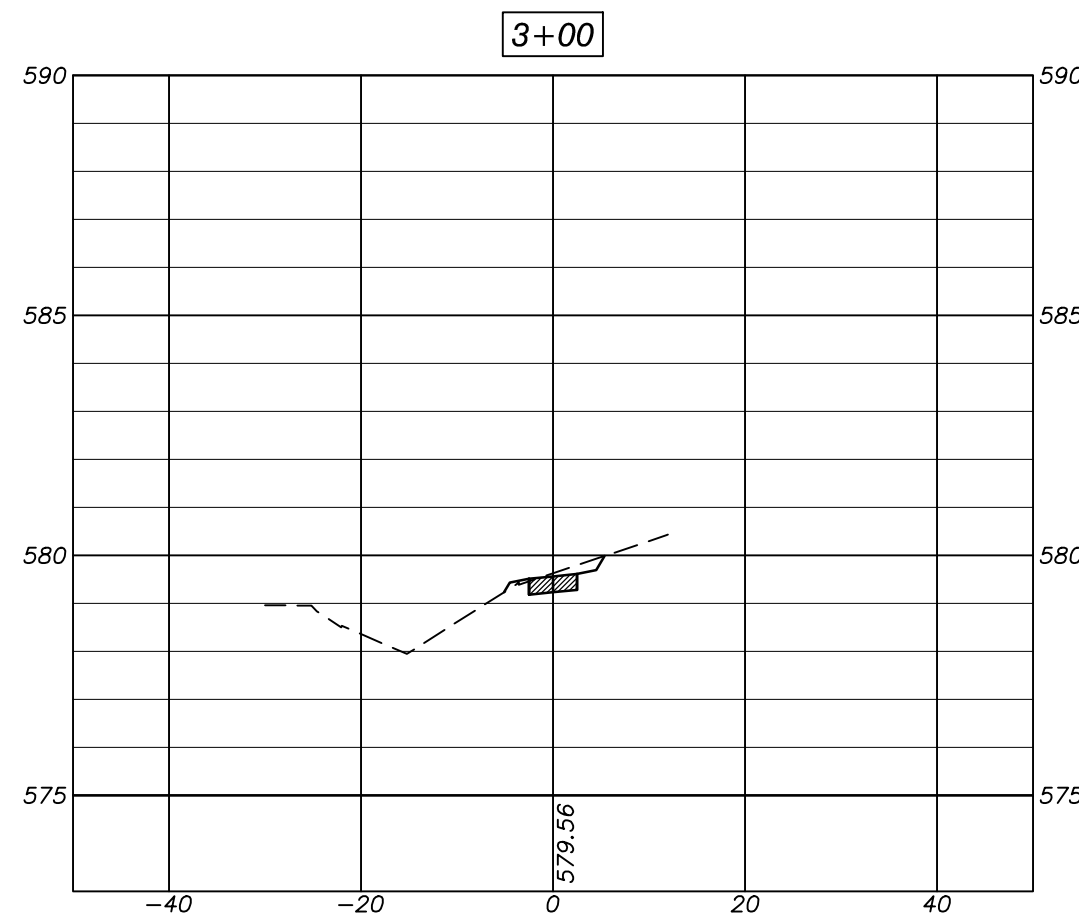
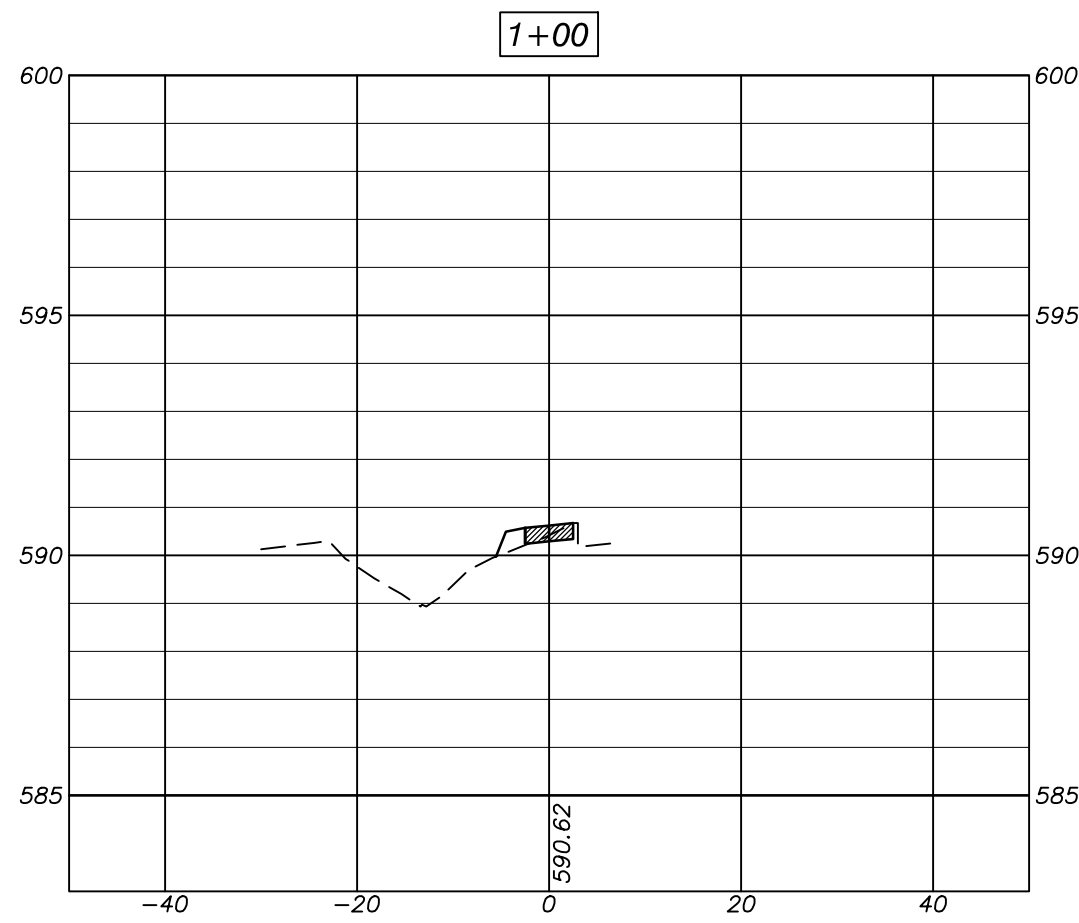
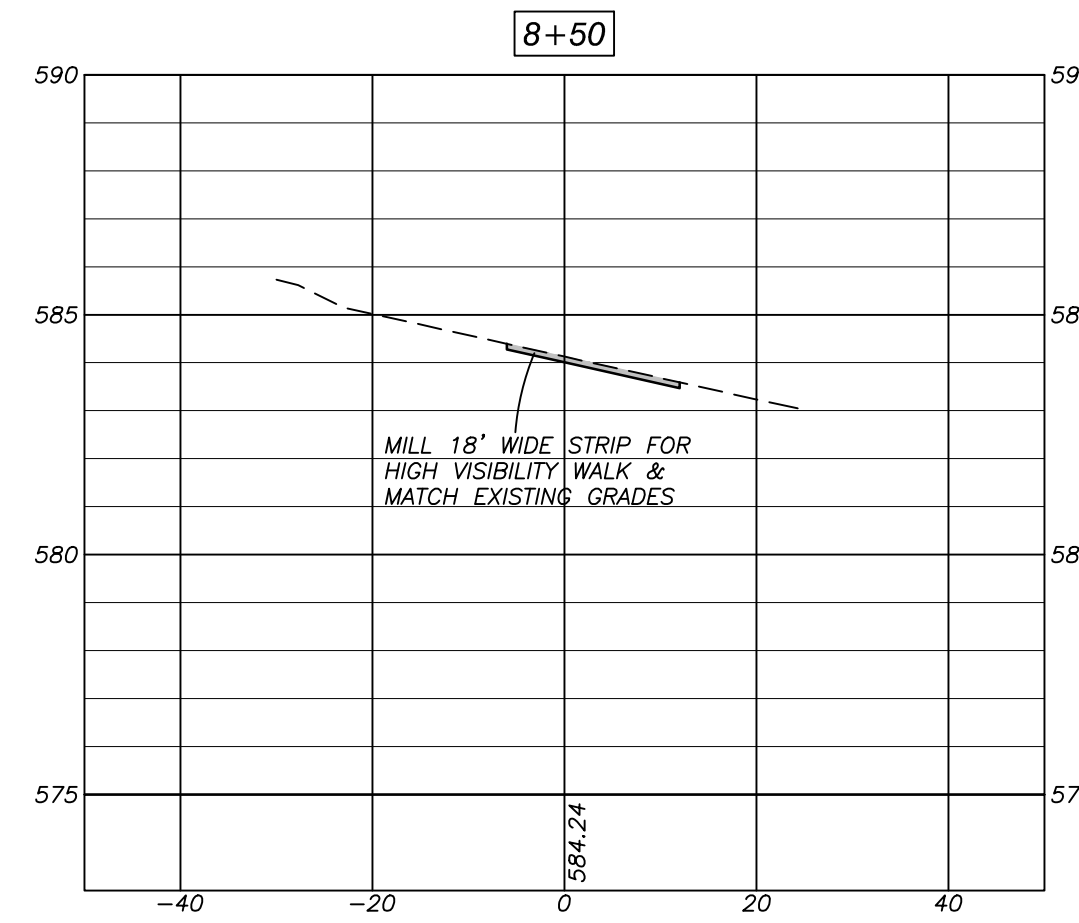
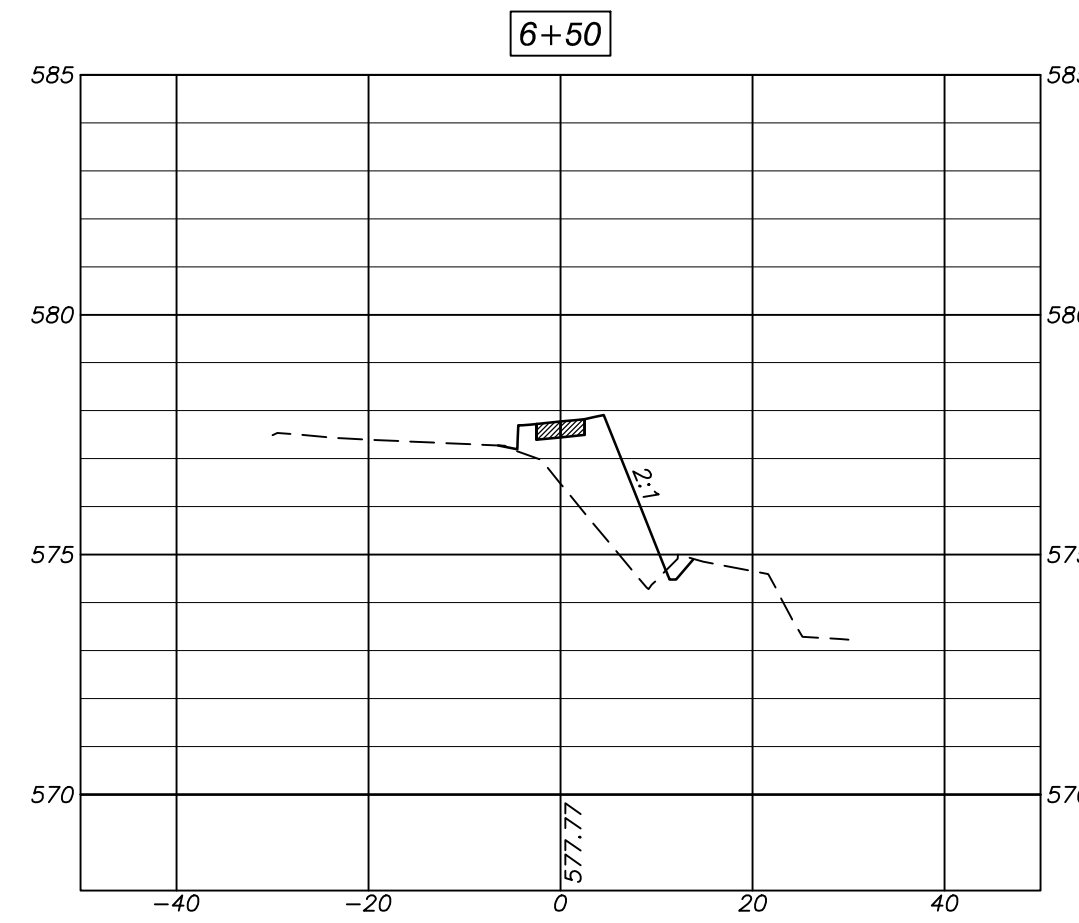
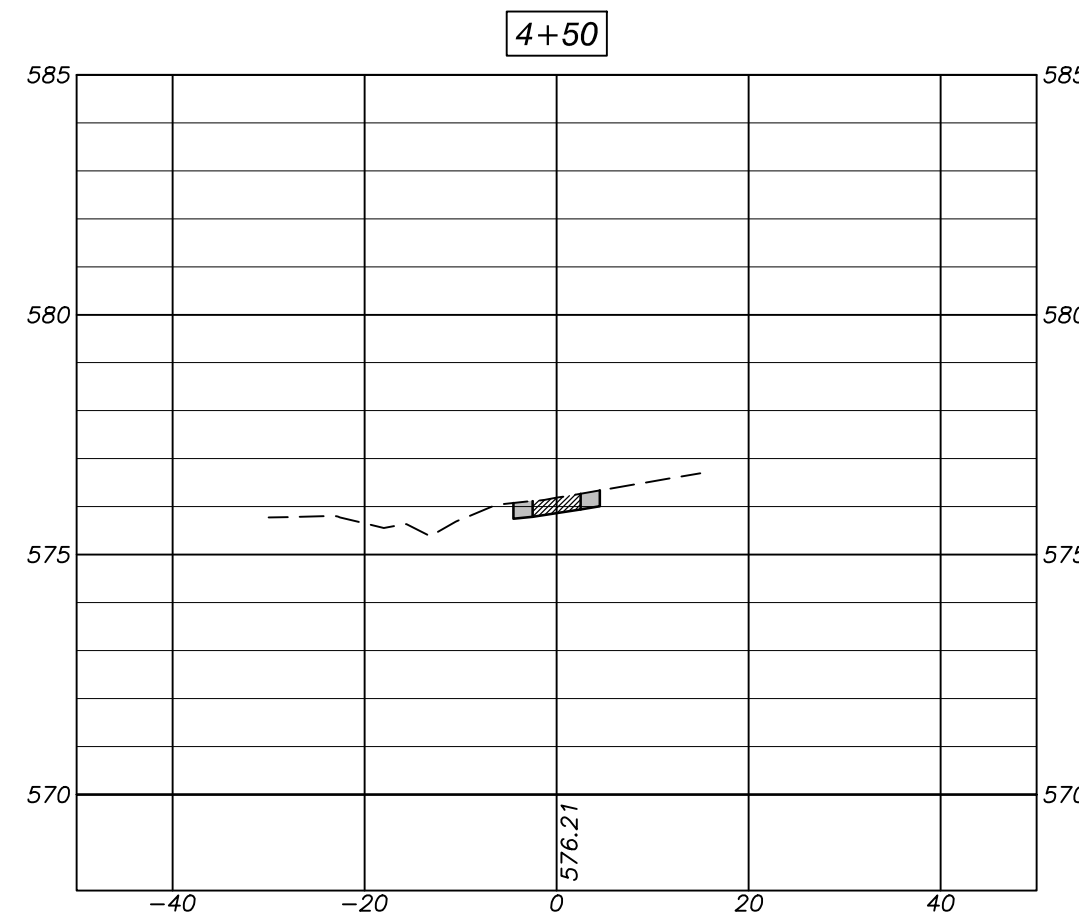
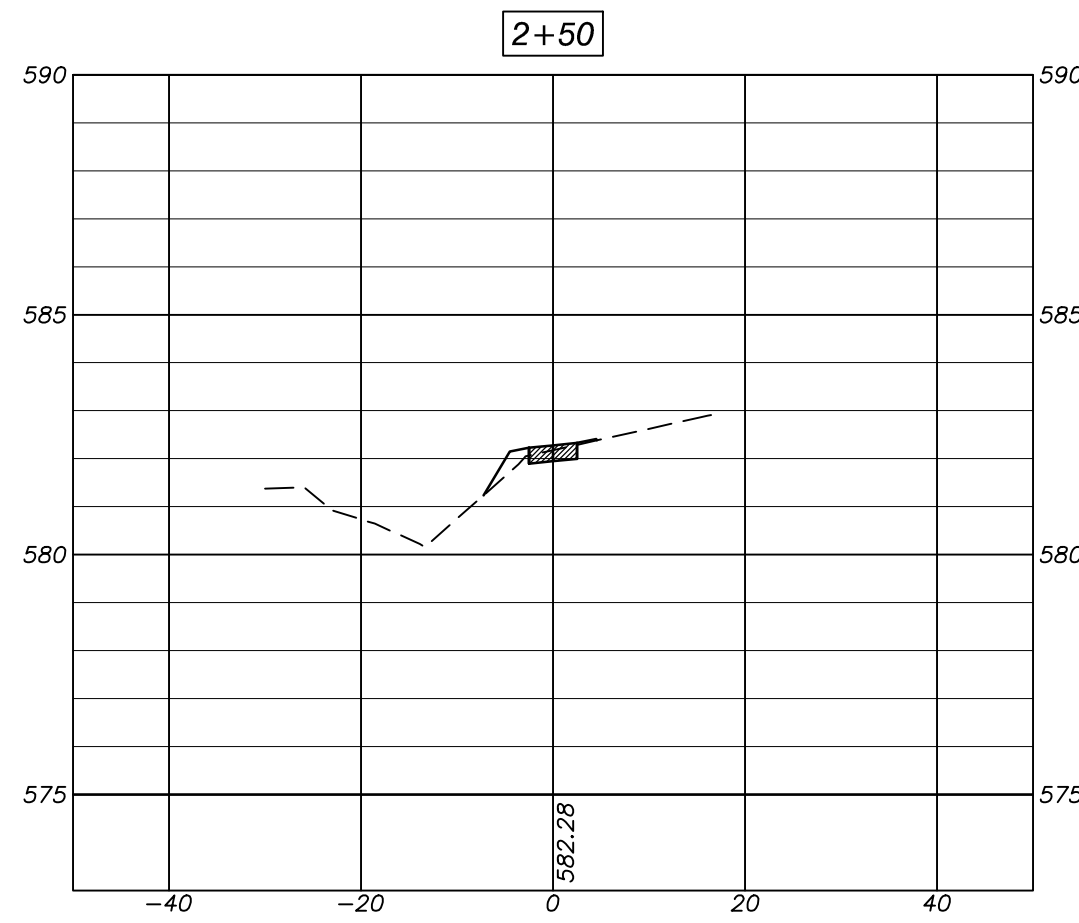
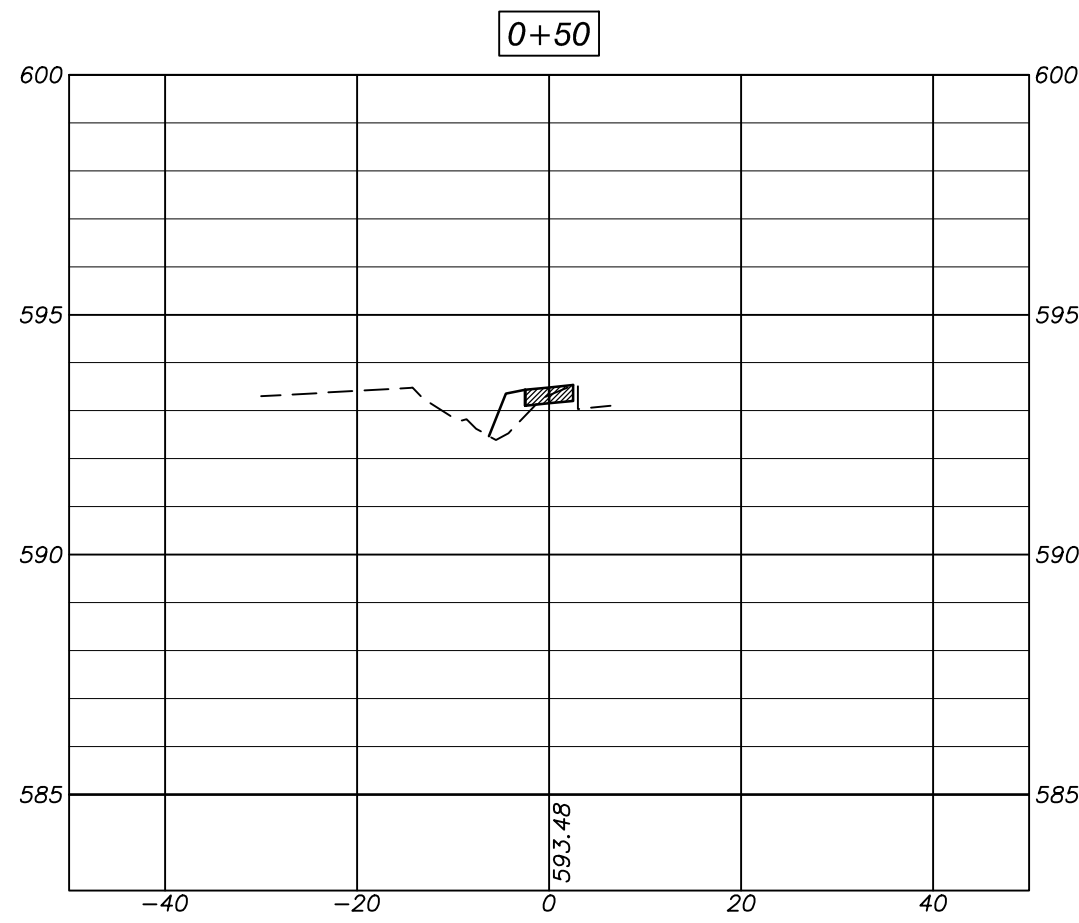
DATE: 8/15/14  
DRAWN BY: WDF  
CHECKED BY: MDR

**CURB RAMP & PAVEMENT MARKING DETAILS**

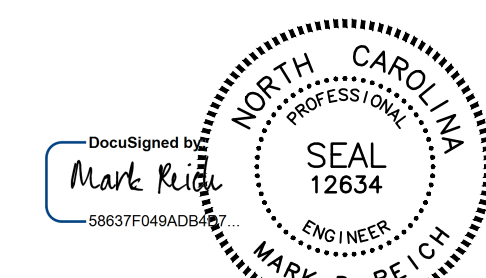
JOB NO. 13069  
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SHEET NO.

**9**





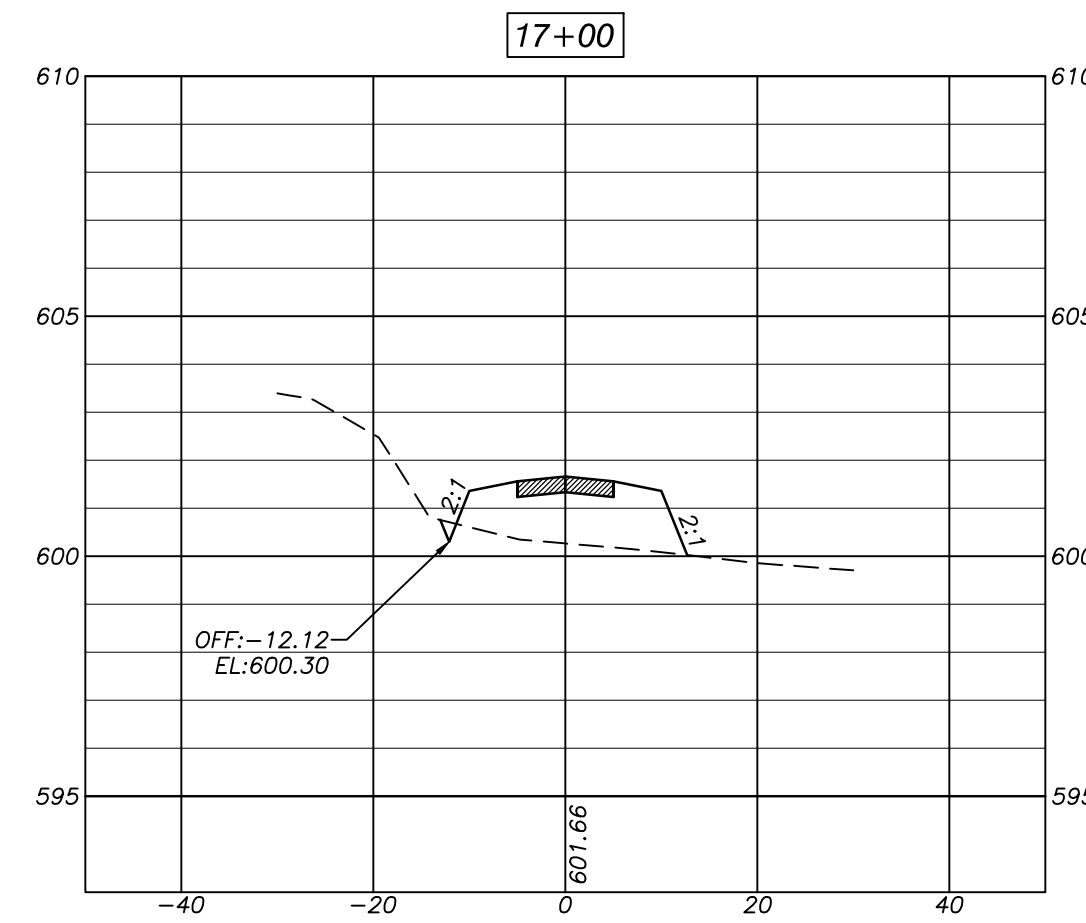
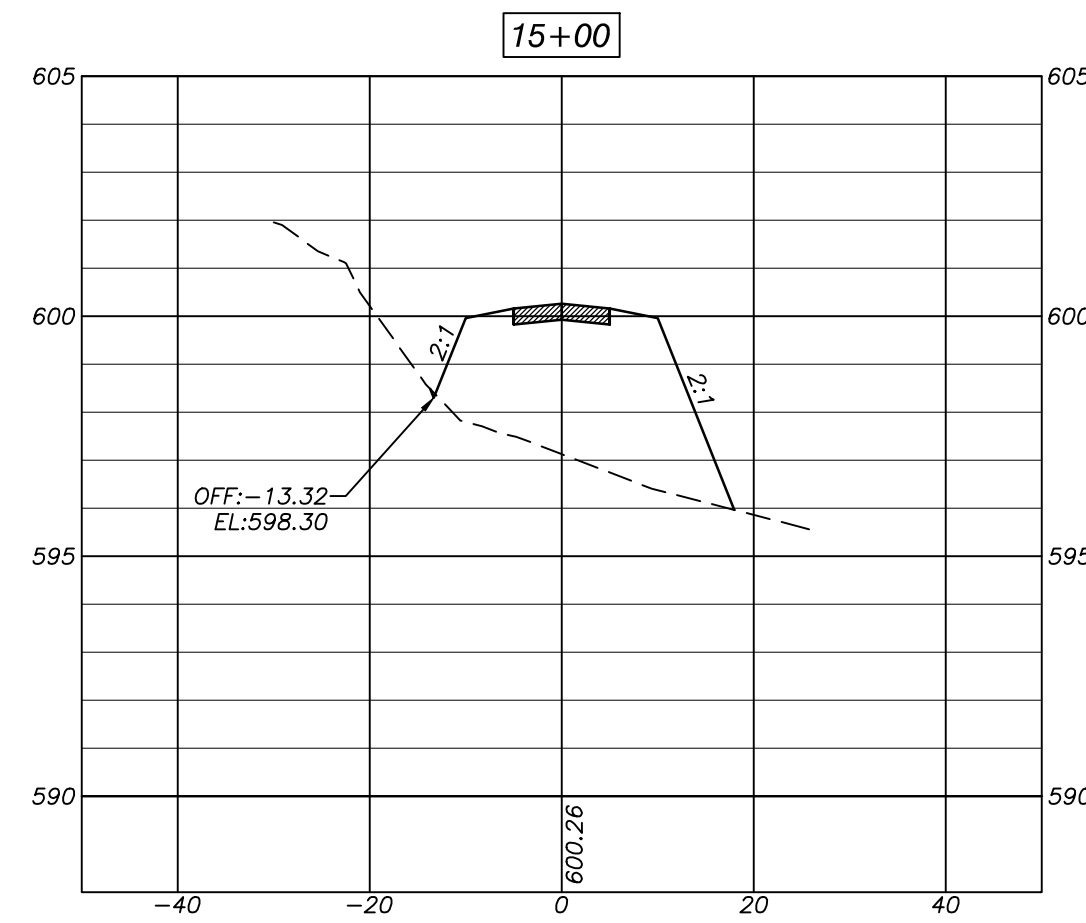
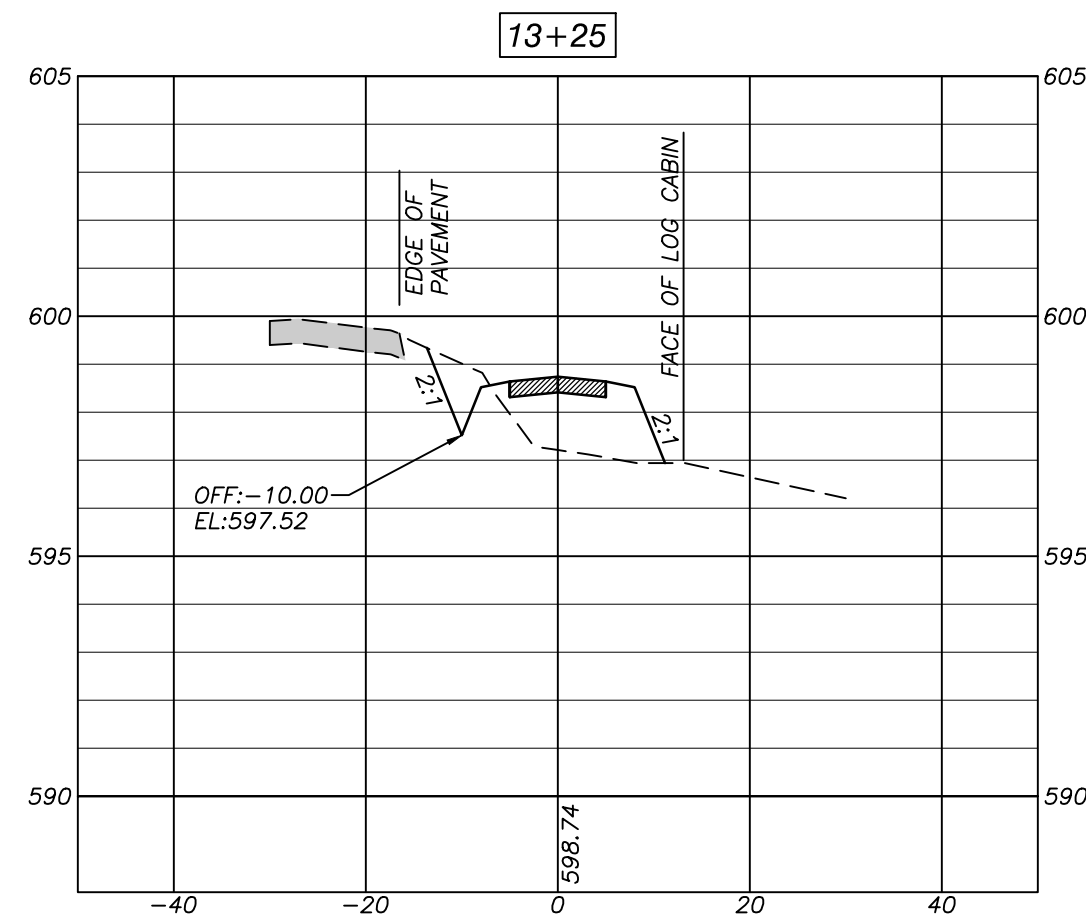
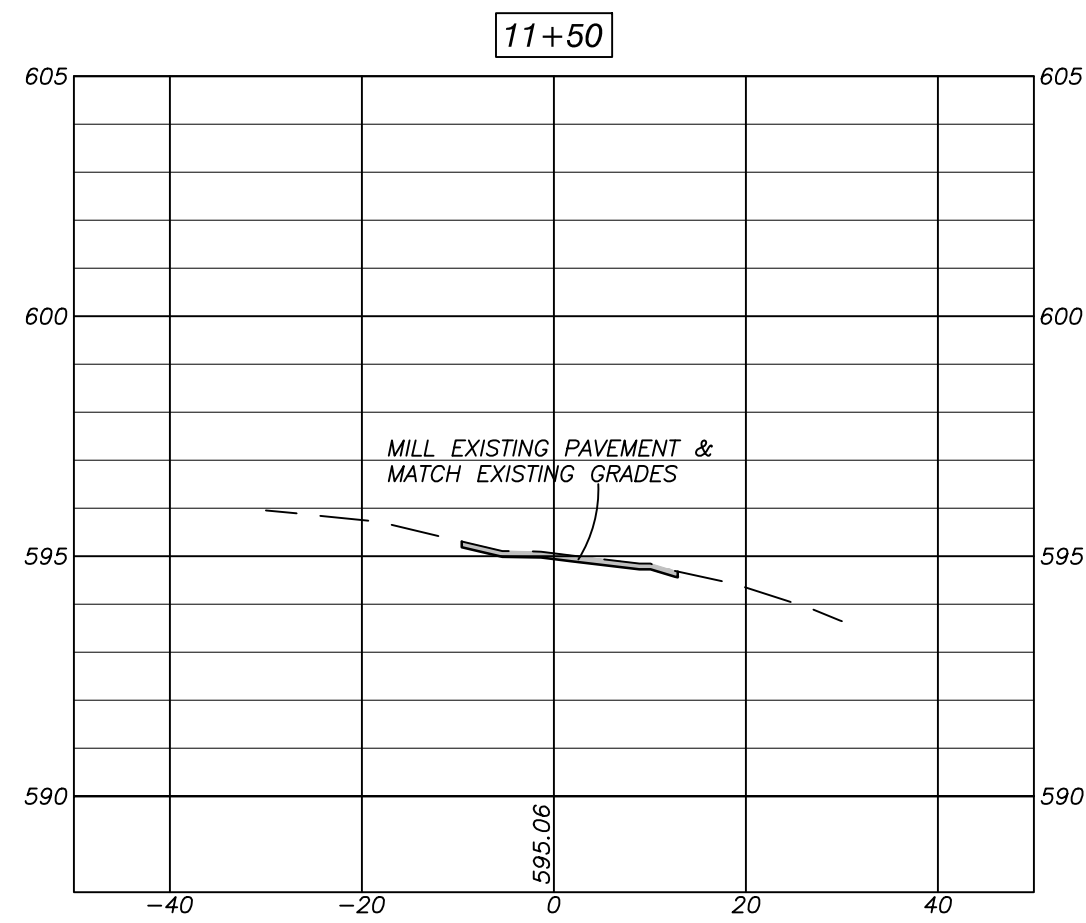
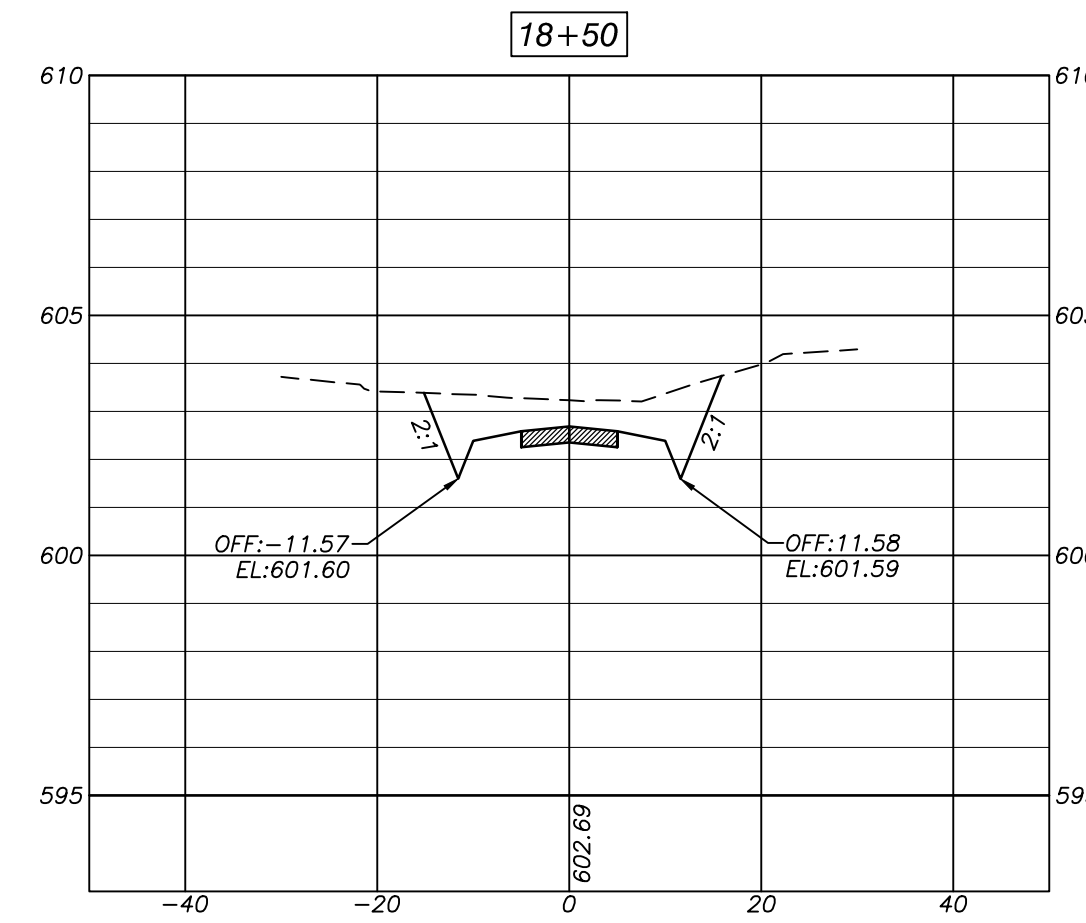
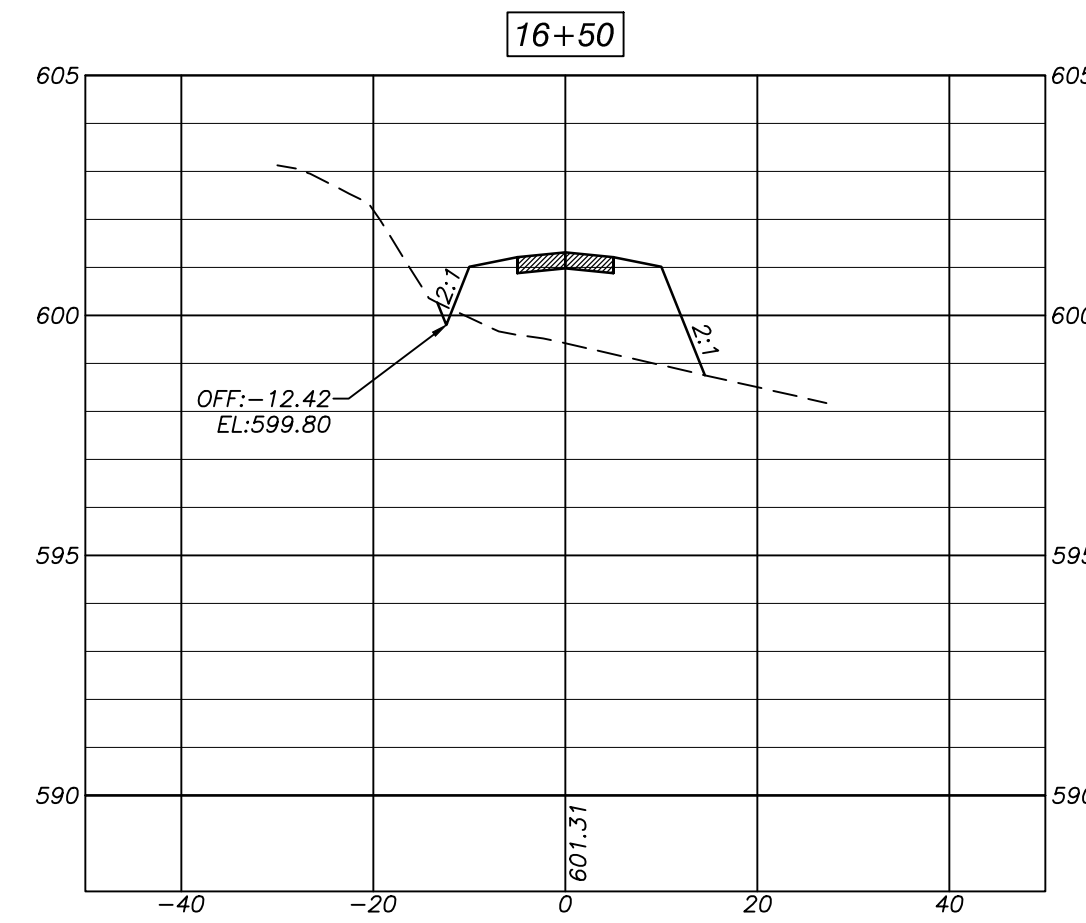
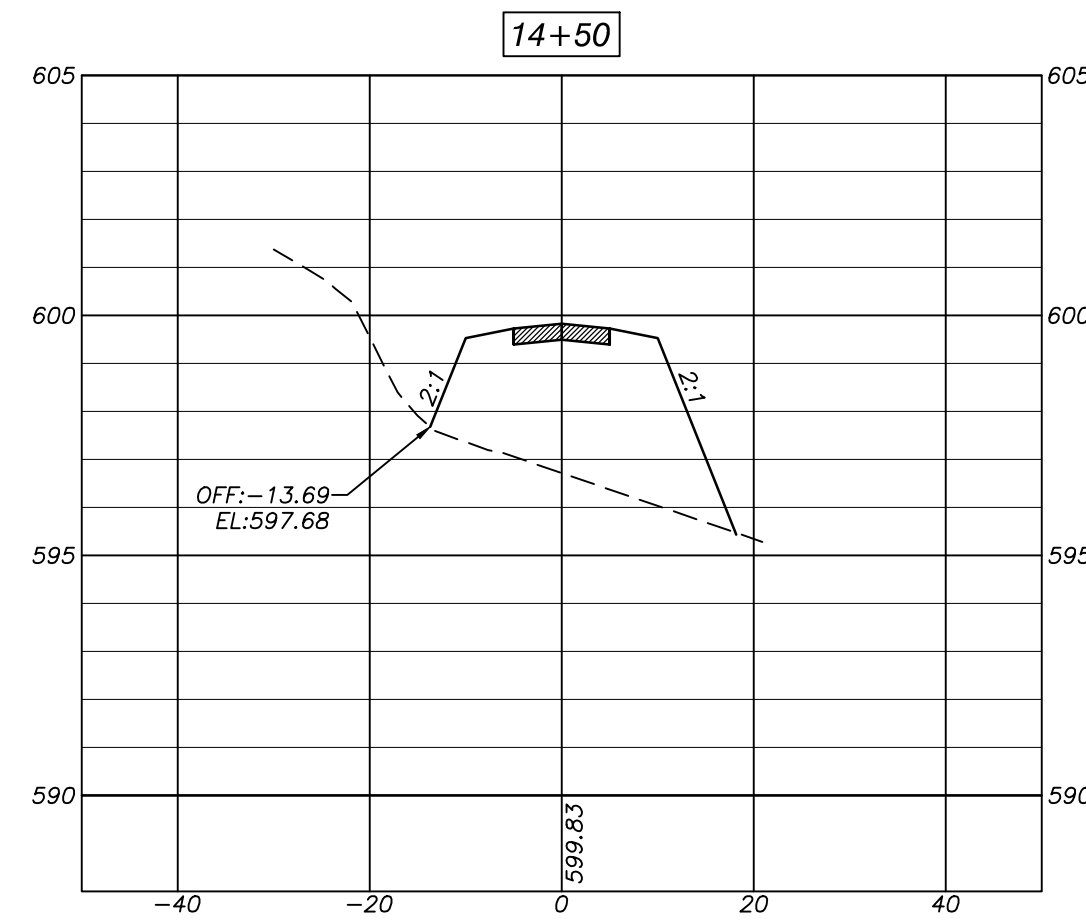
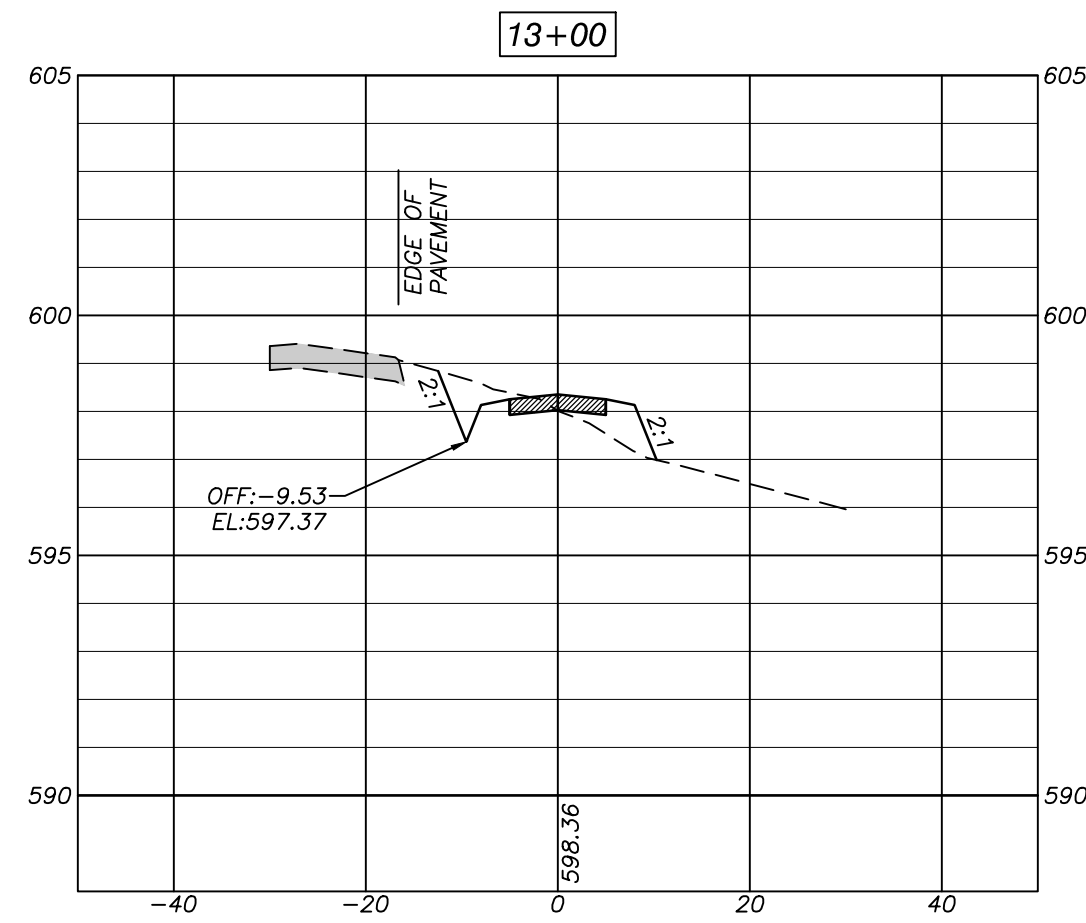
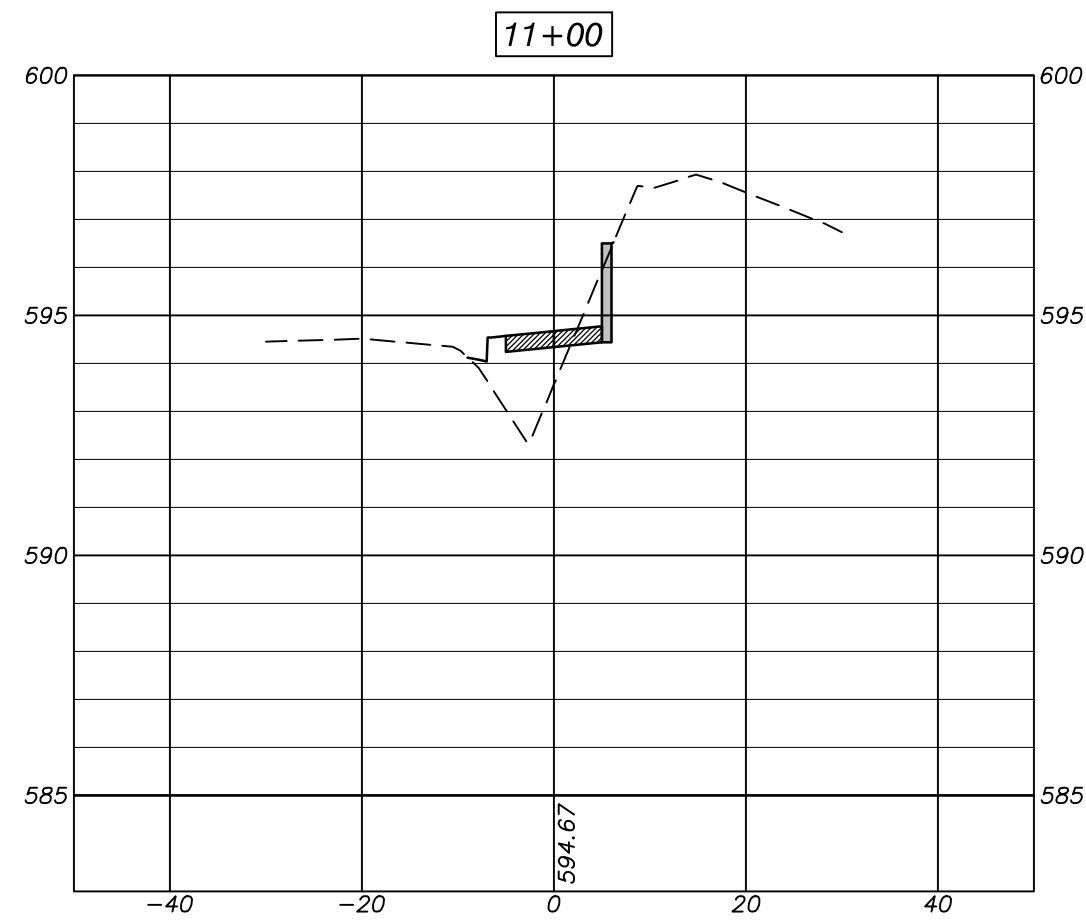
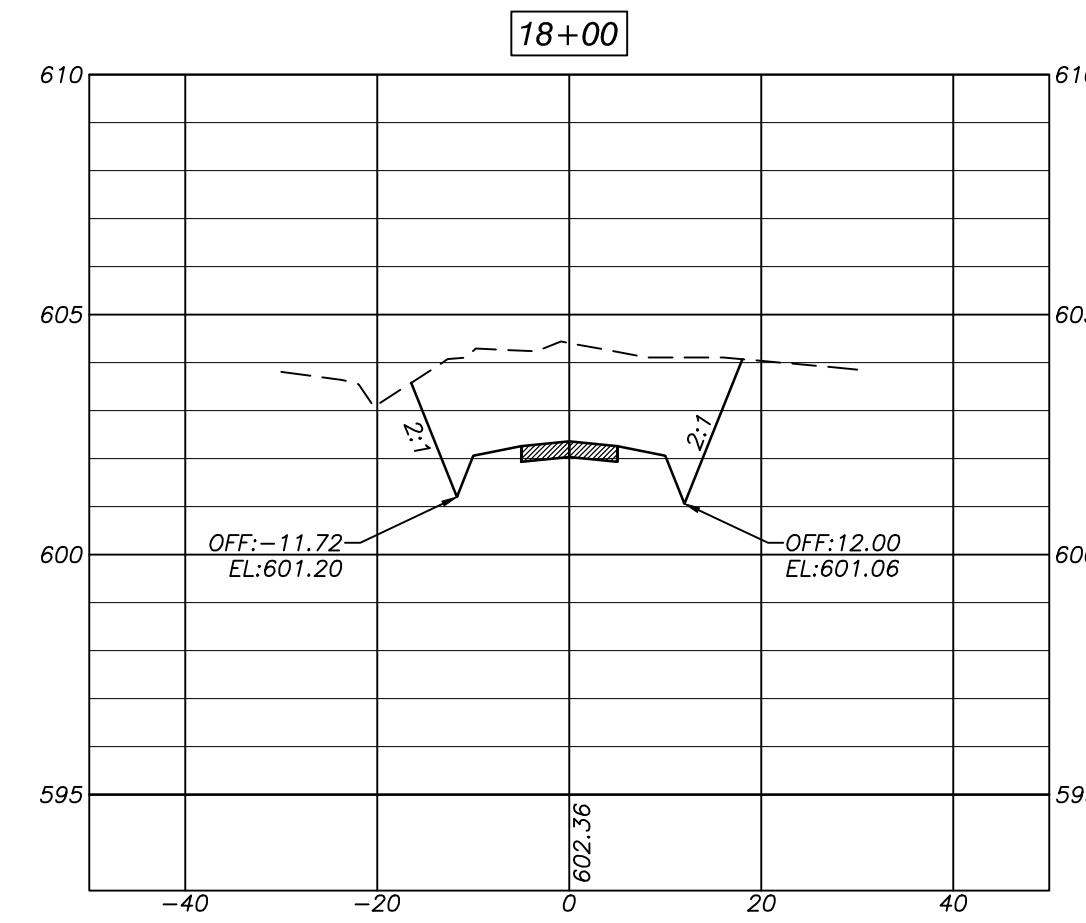
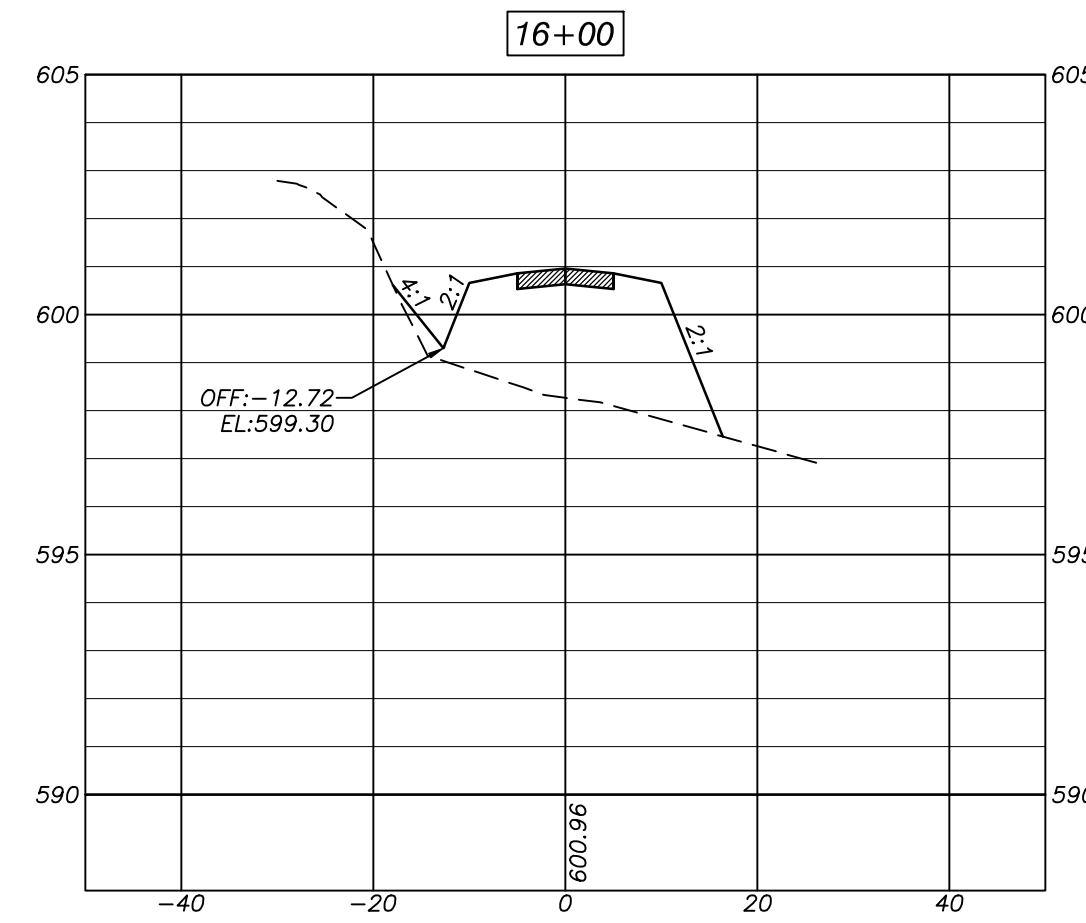
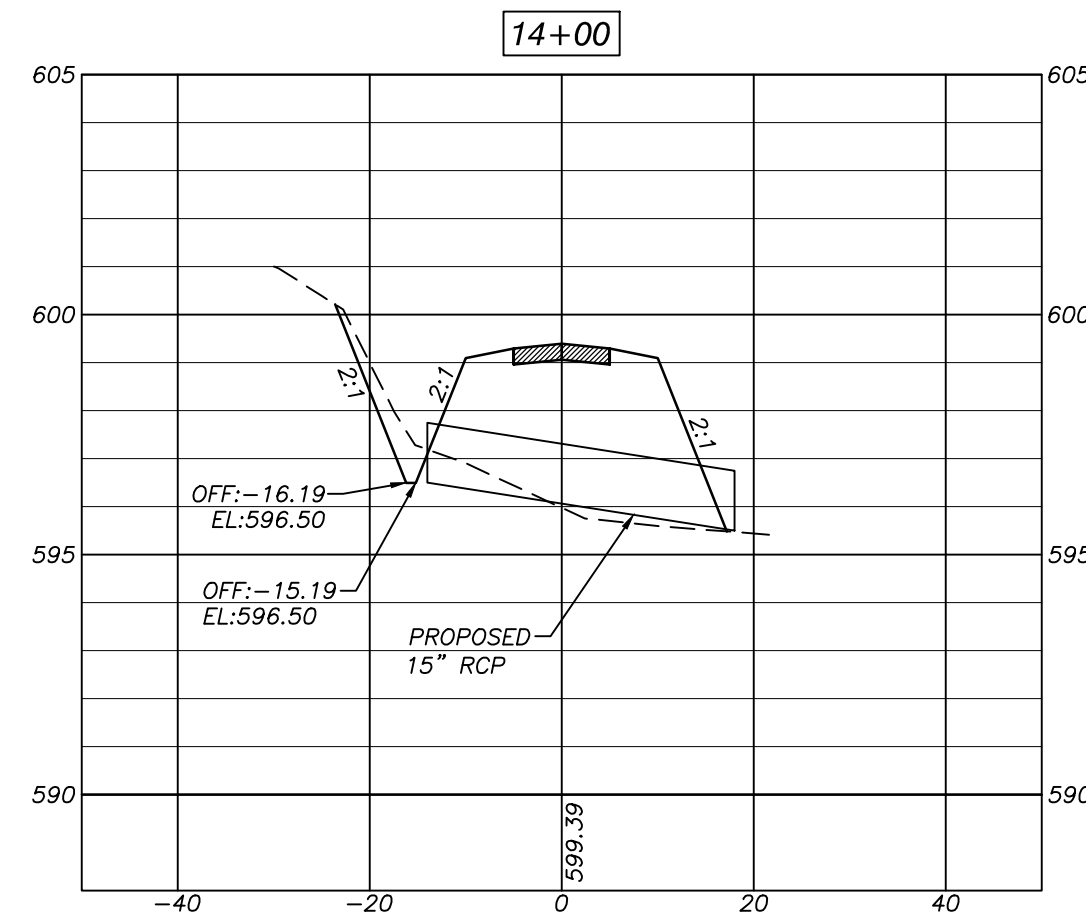
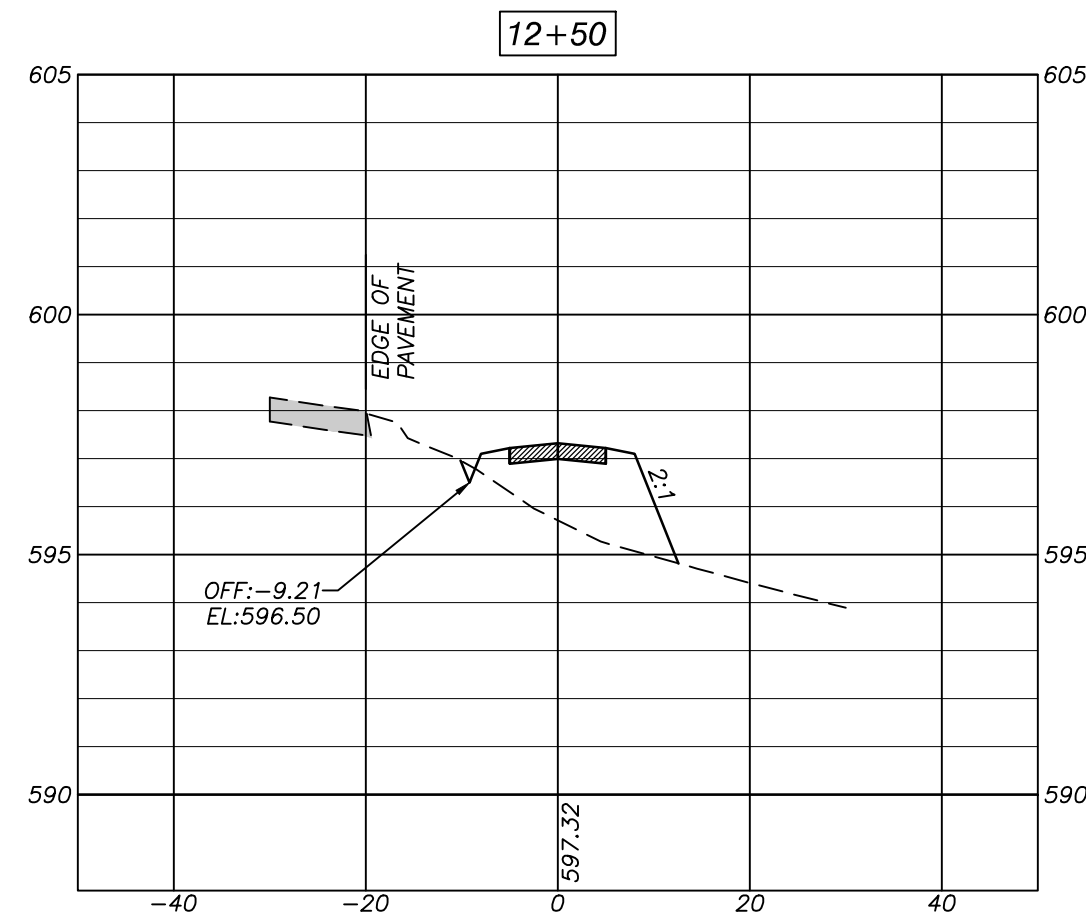
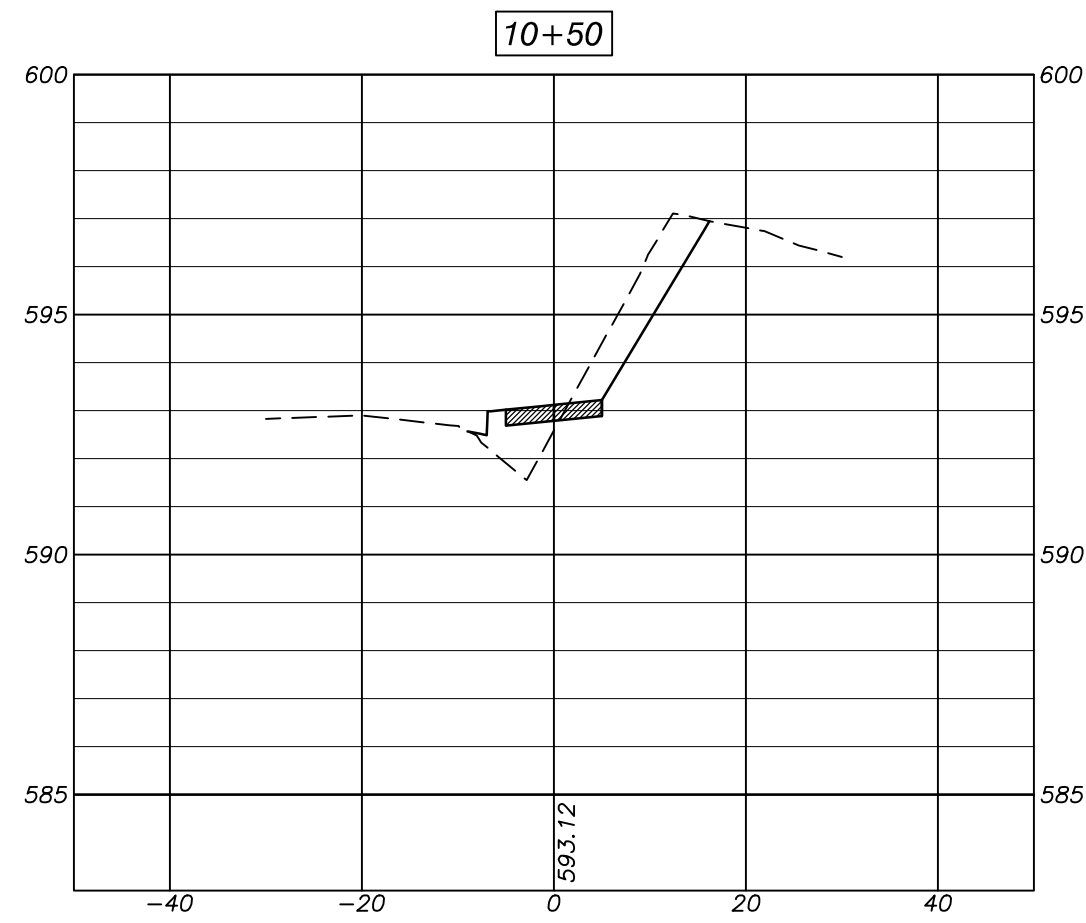
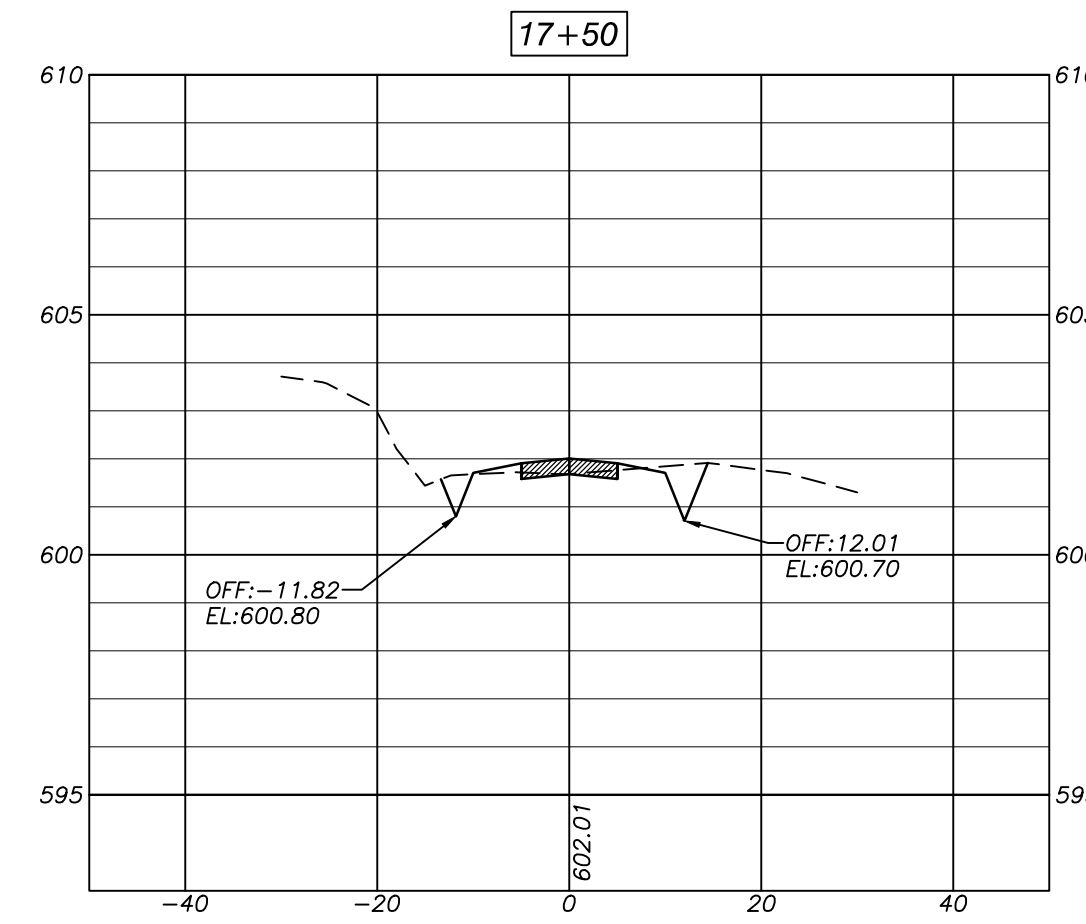
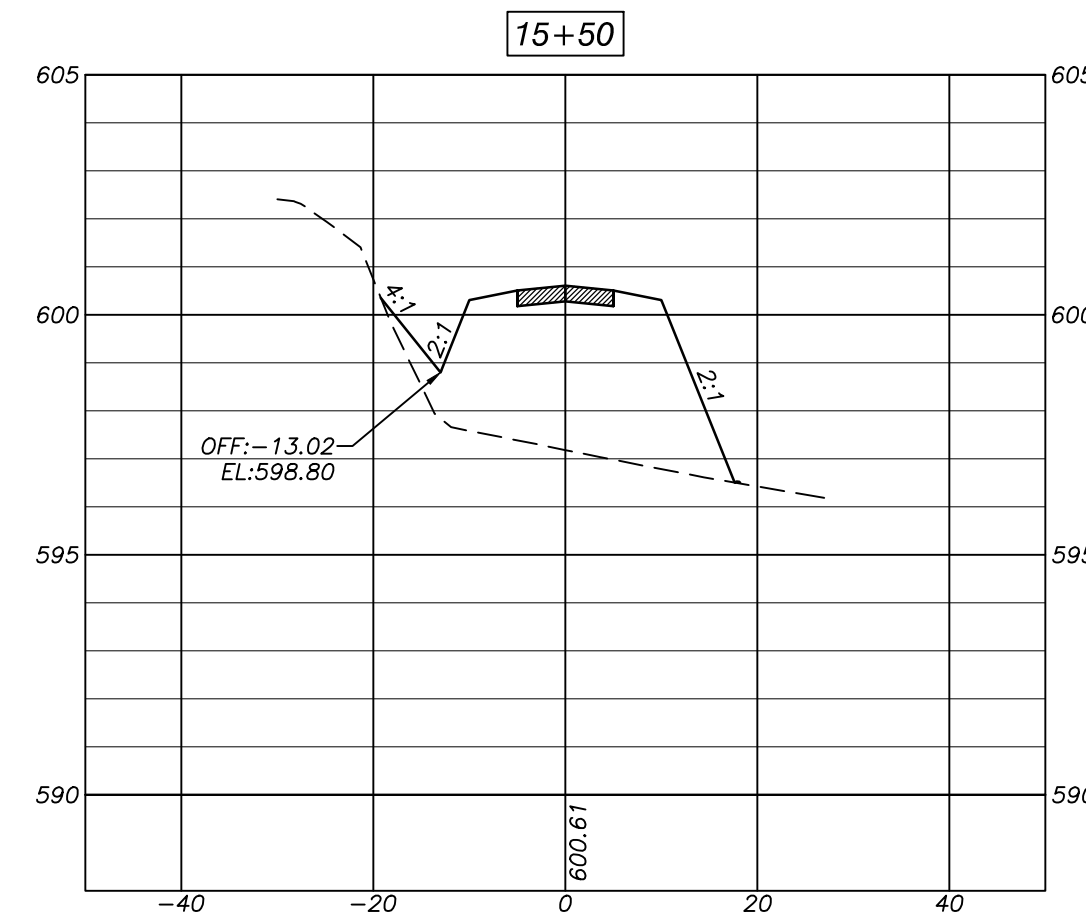
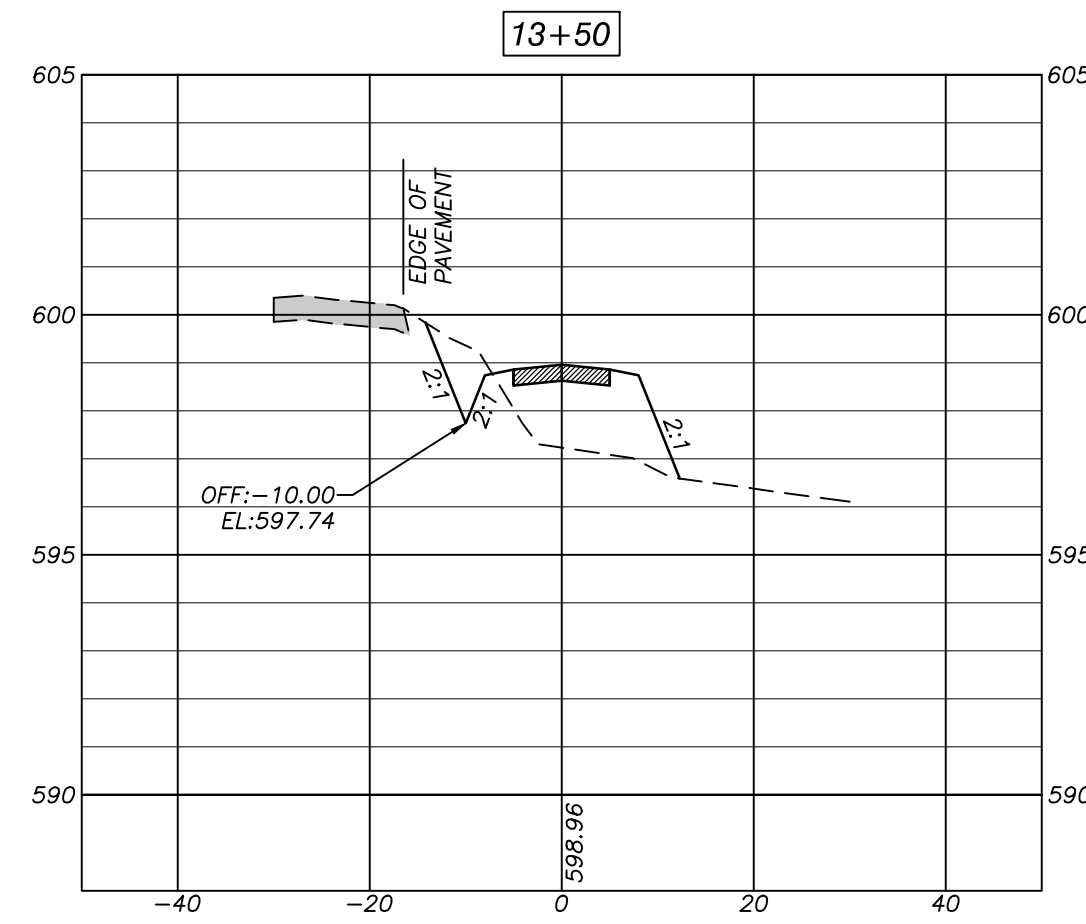
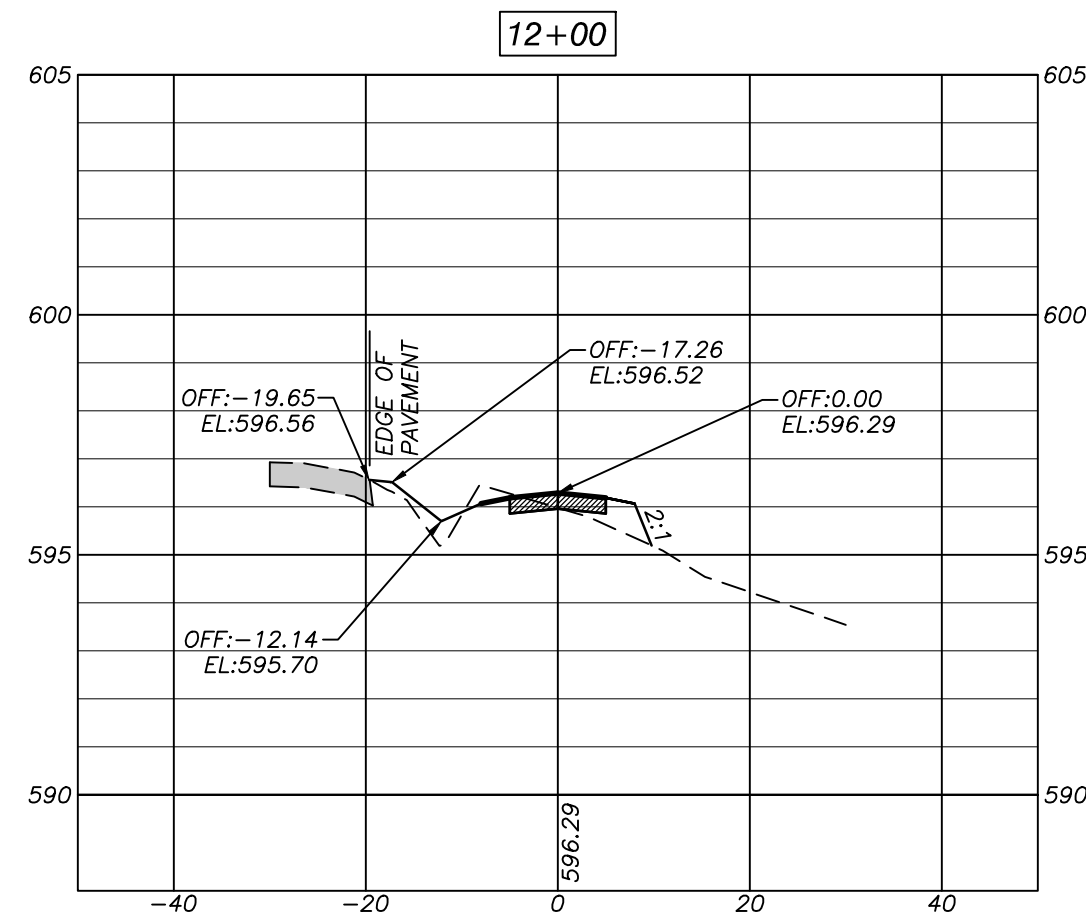
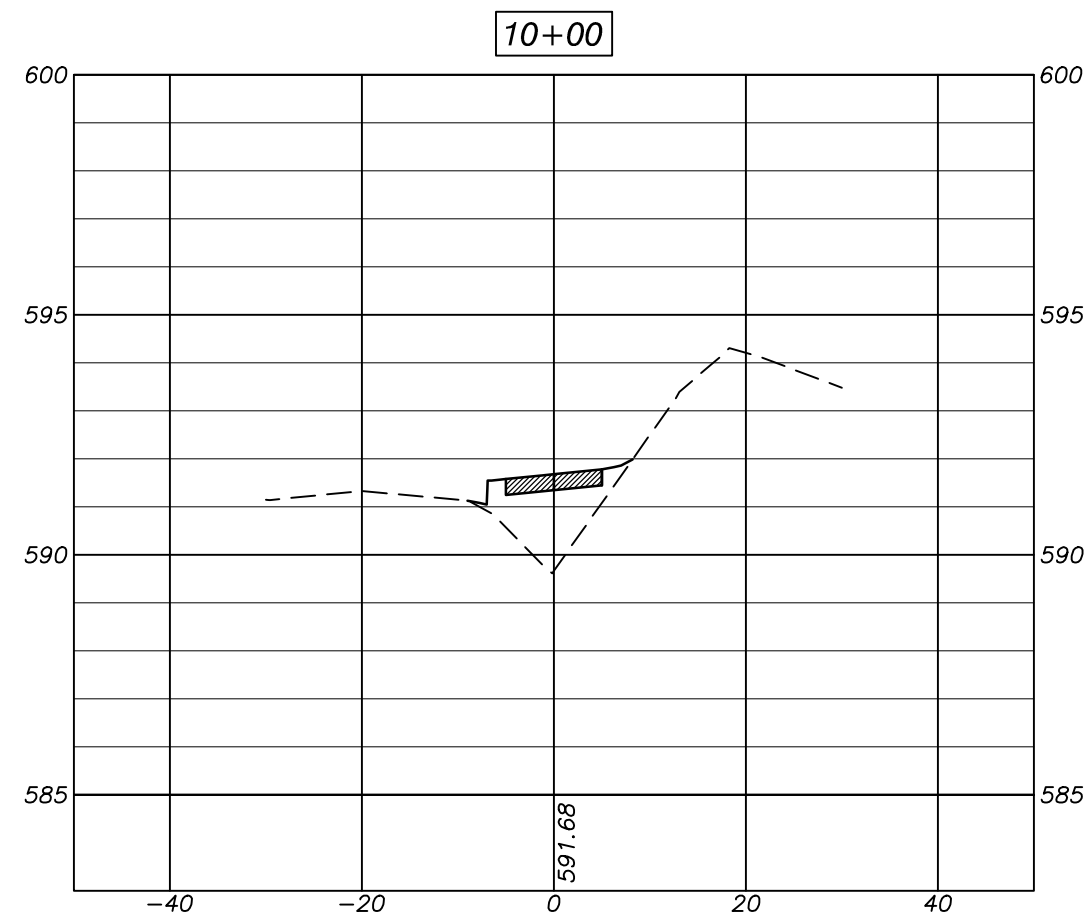
**SCALES**  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'



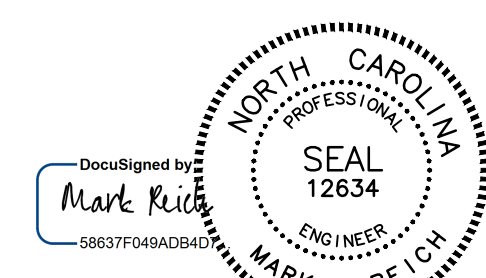
REV. 1/27/15 PER NCDOT COMMENTS

NCDOT PROJECT NO. EB-3314 E	
PROPOSED SIDEWALK IMPROVEMENTS FOR	
<b>TOWN OF YANCEYVILLE</b>	
YANCEYVILLE, NORTH CAROLINA YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC	
alley, williams, carmen & king, inc. ENGINEERS, ARCHITECTS & SURVEYORS 740 chapel hill road burlington, n.c. 27215	
p.o. box 1179 336/226-5534 Firm's Engineering License No. F-0203	
DATE: 8/15/14	JOB NO. 13069
DRAWN BY: WDF	DWG NAME: 13069(10153)BASE.DWG SHEET NO.
CHECKED BY: MDR	<b>10.1</b>
CROSS SECTIONS	





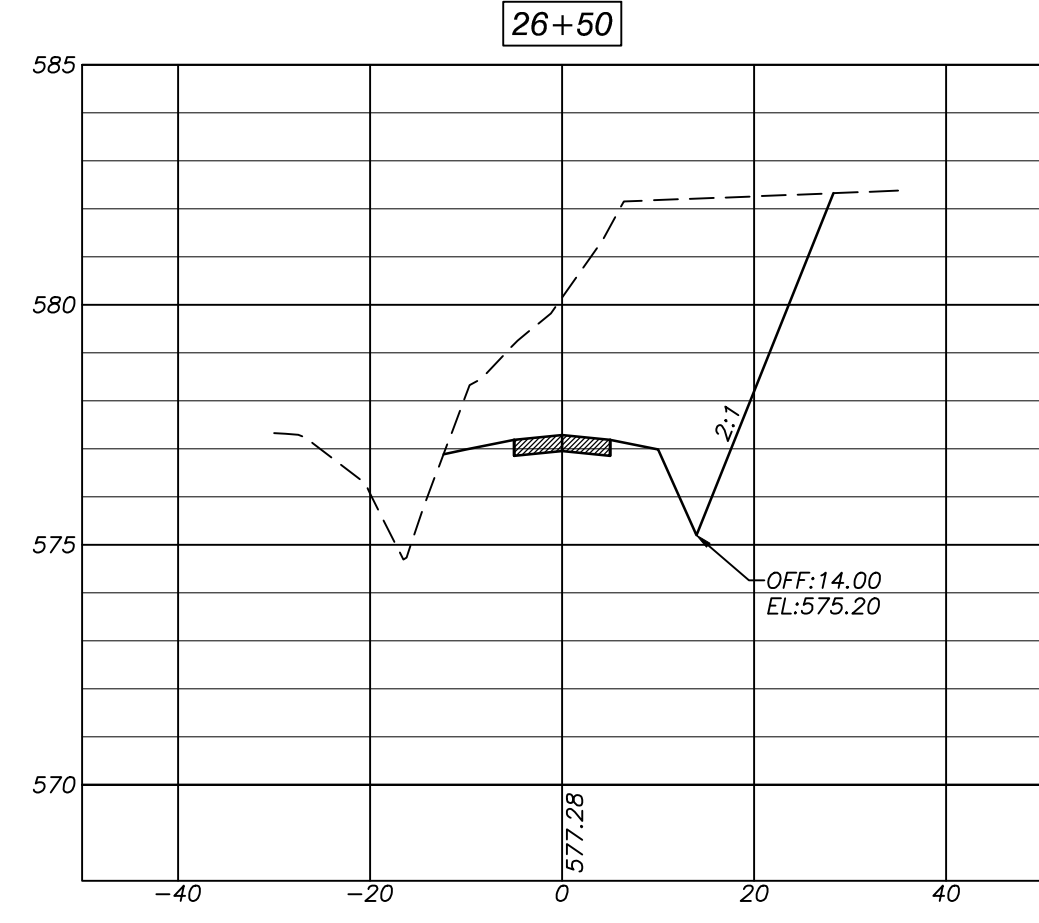
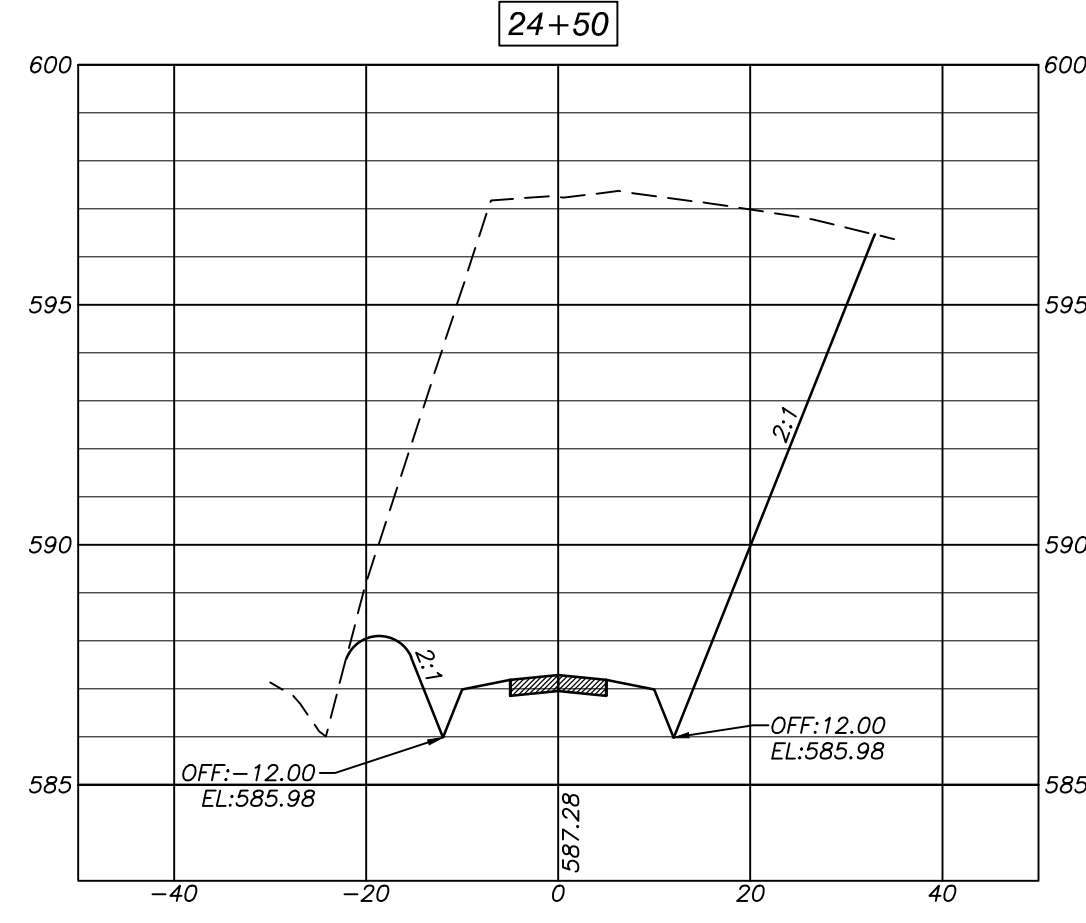
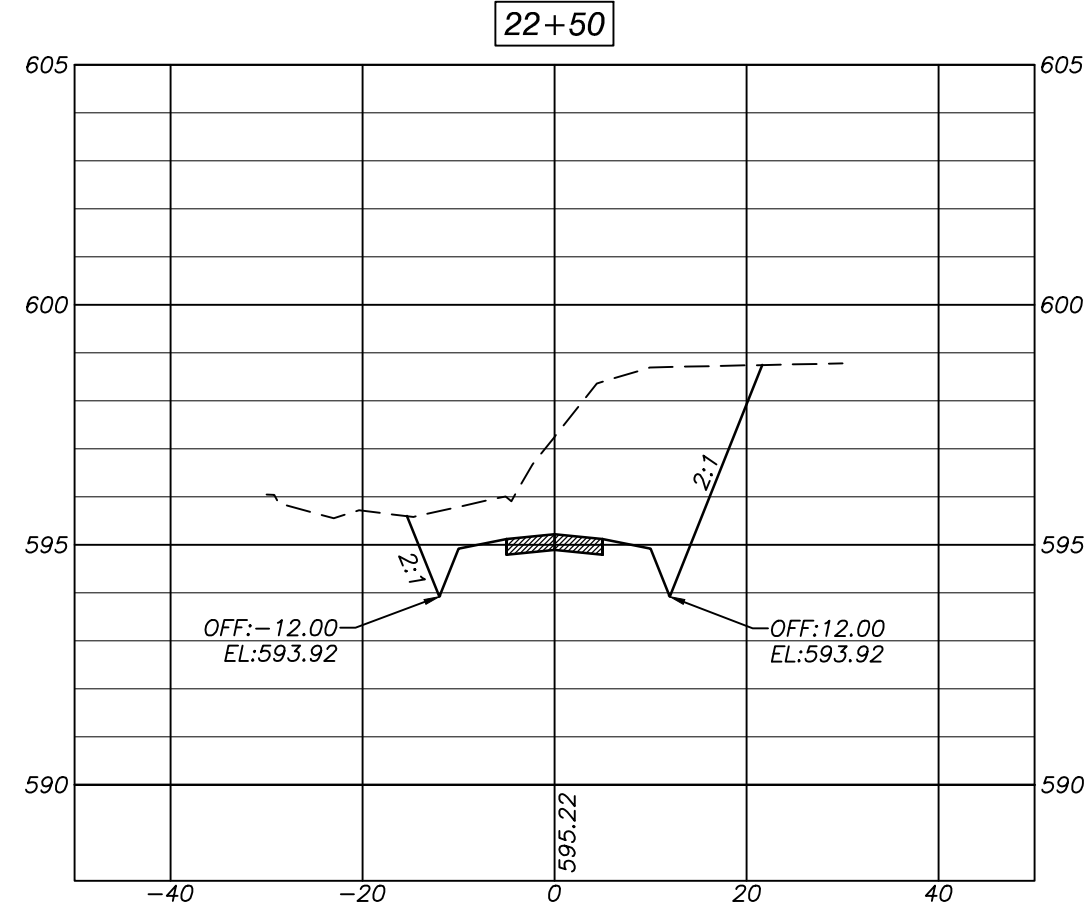
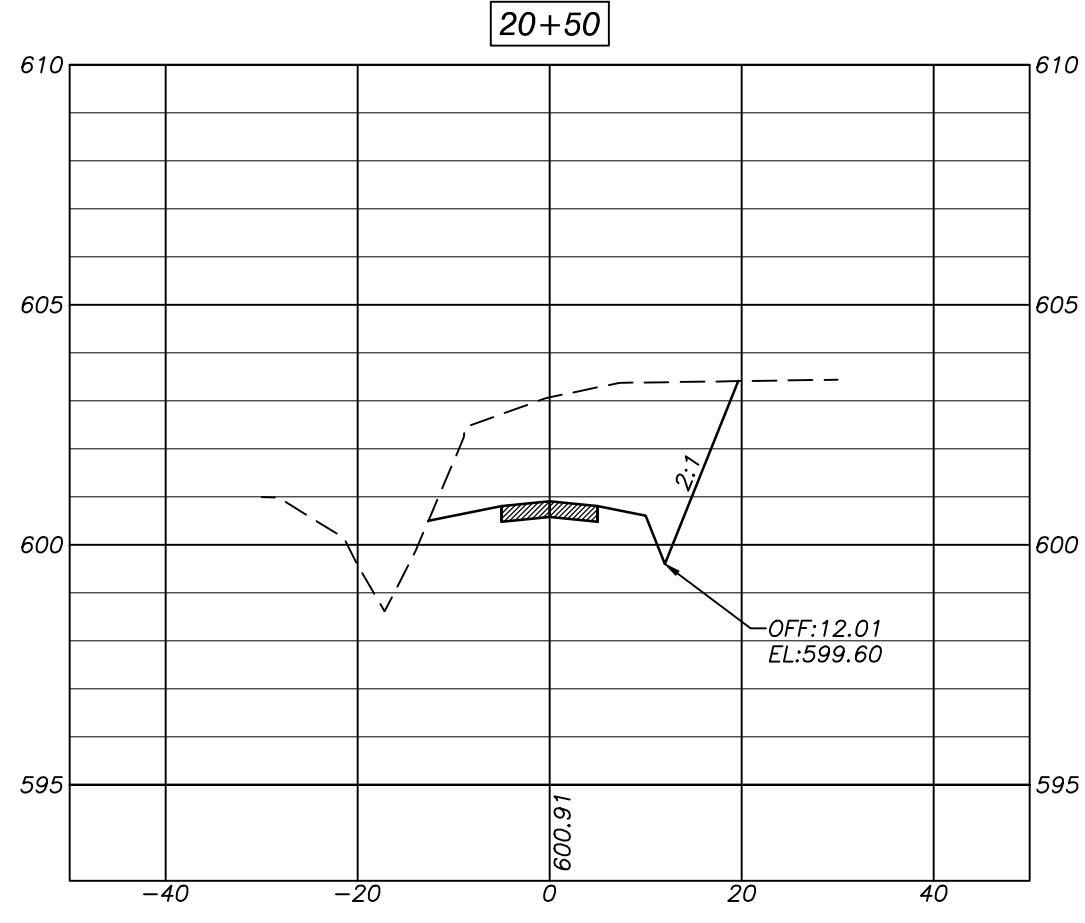
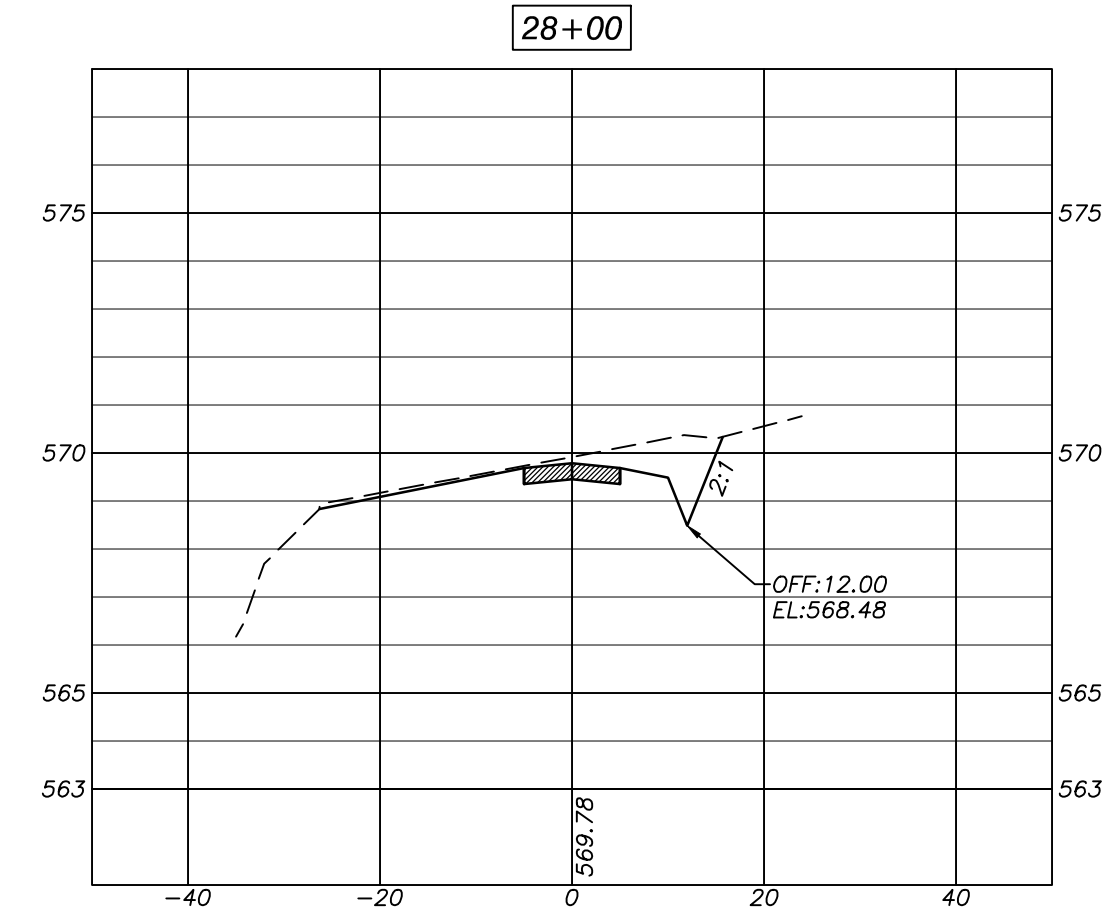
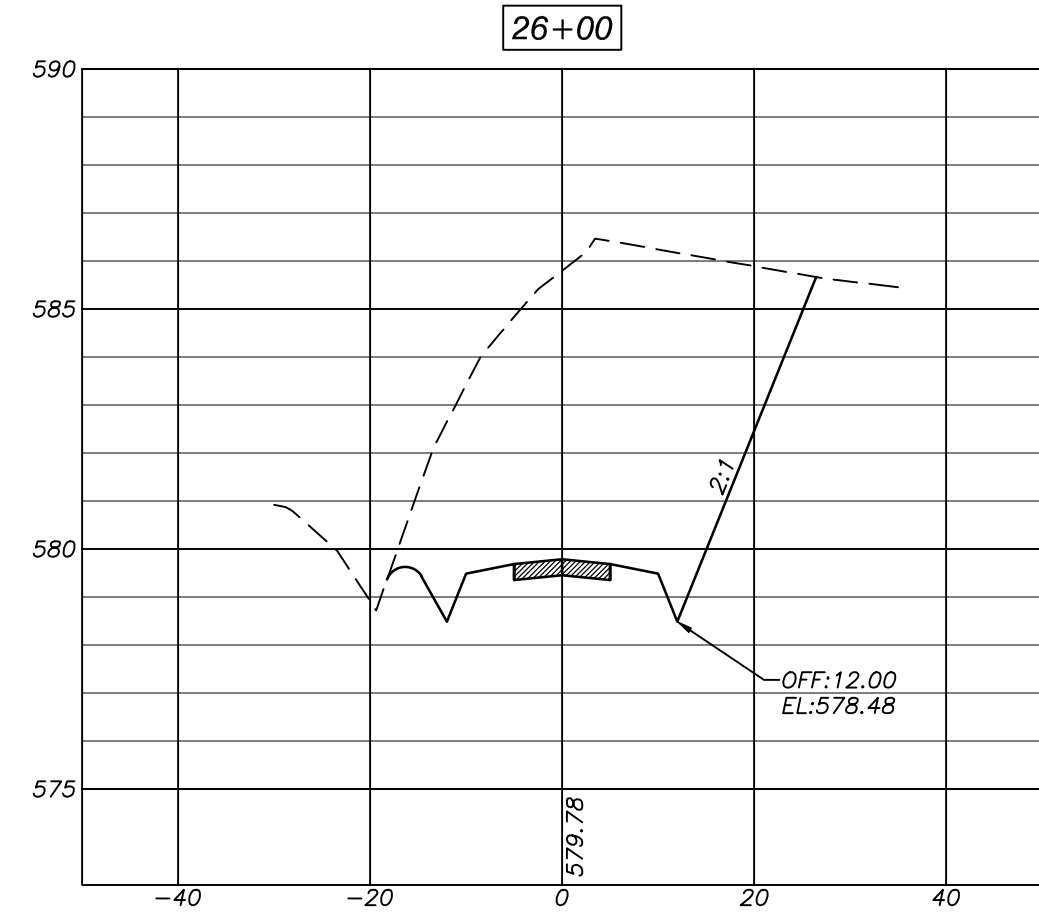
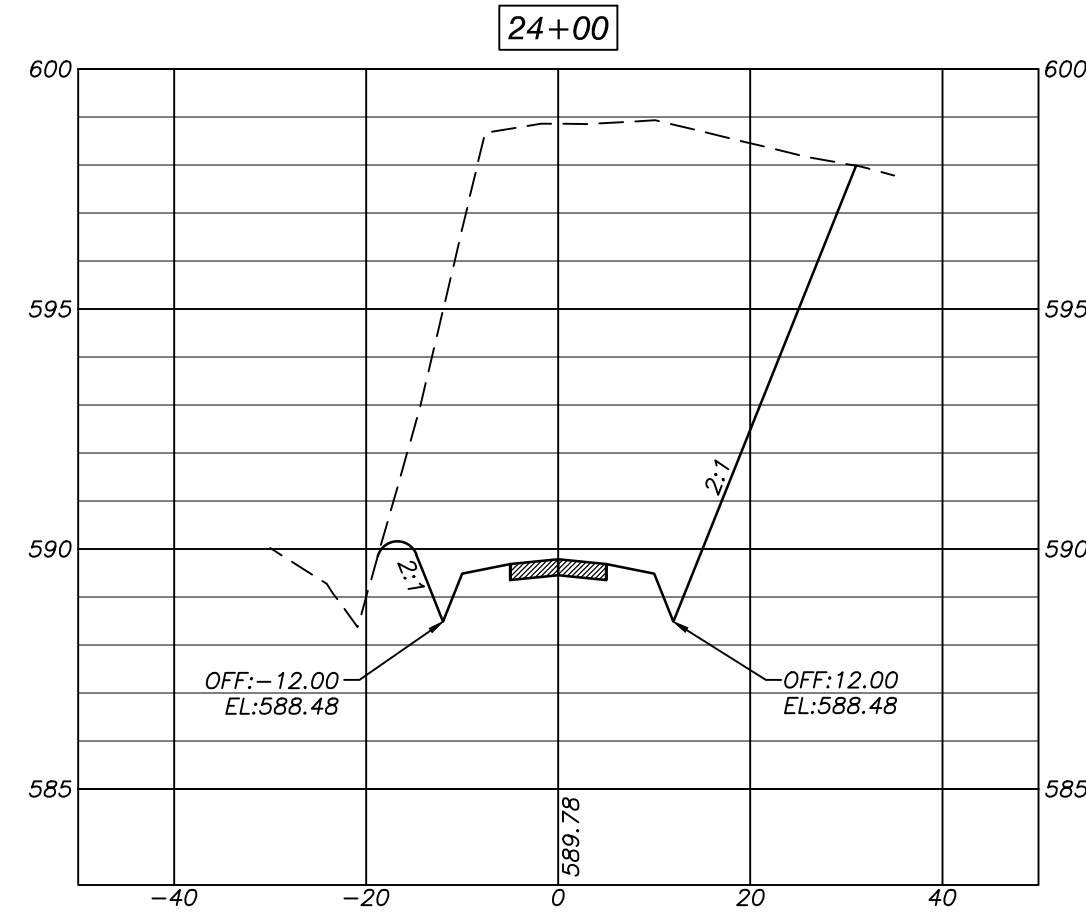
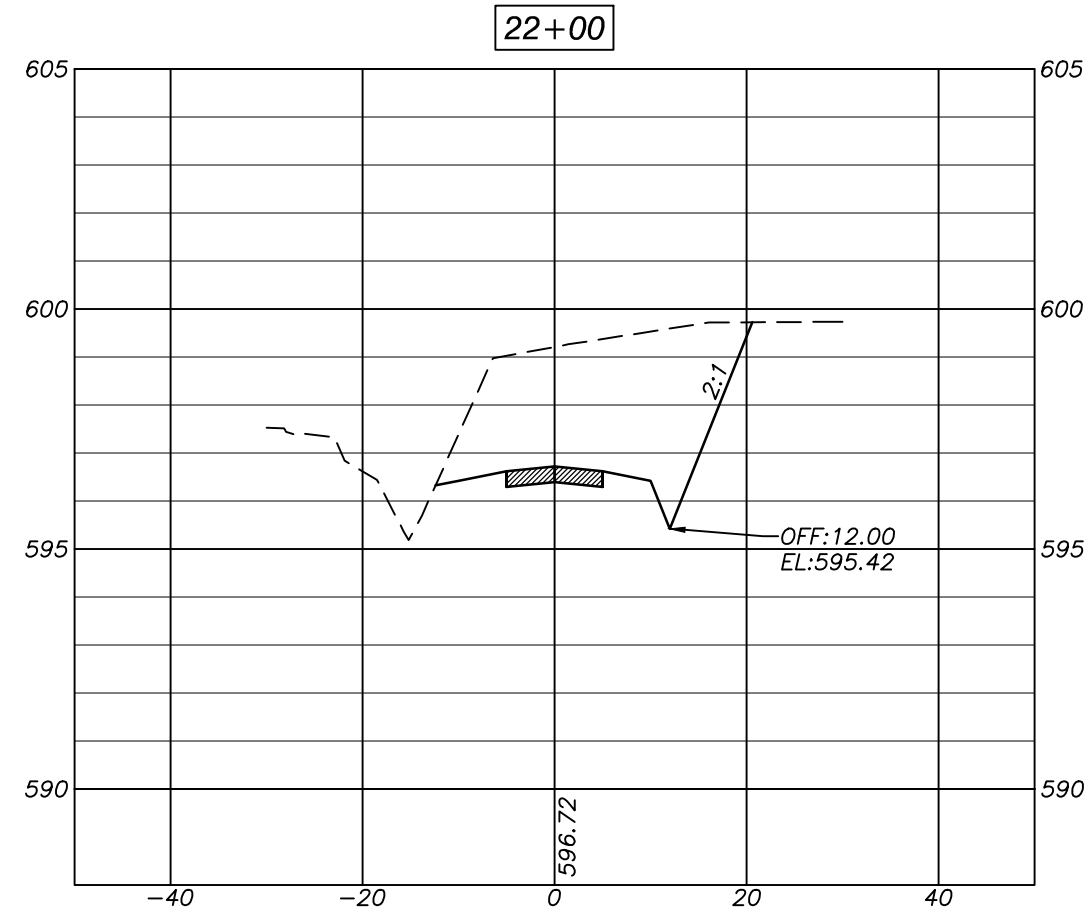
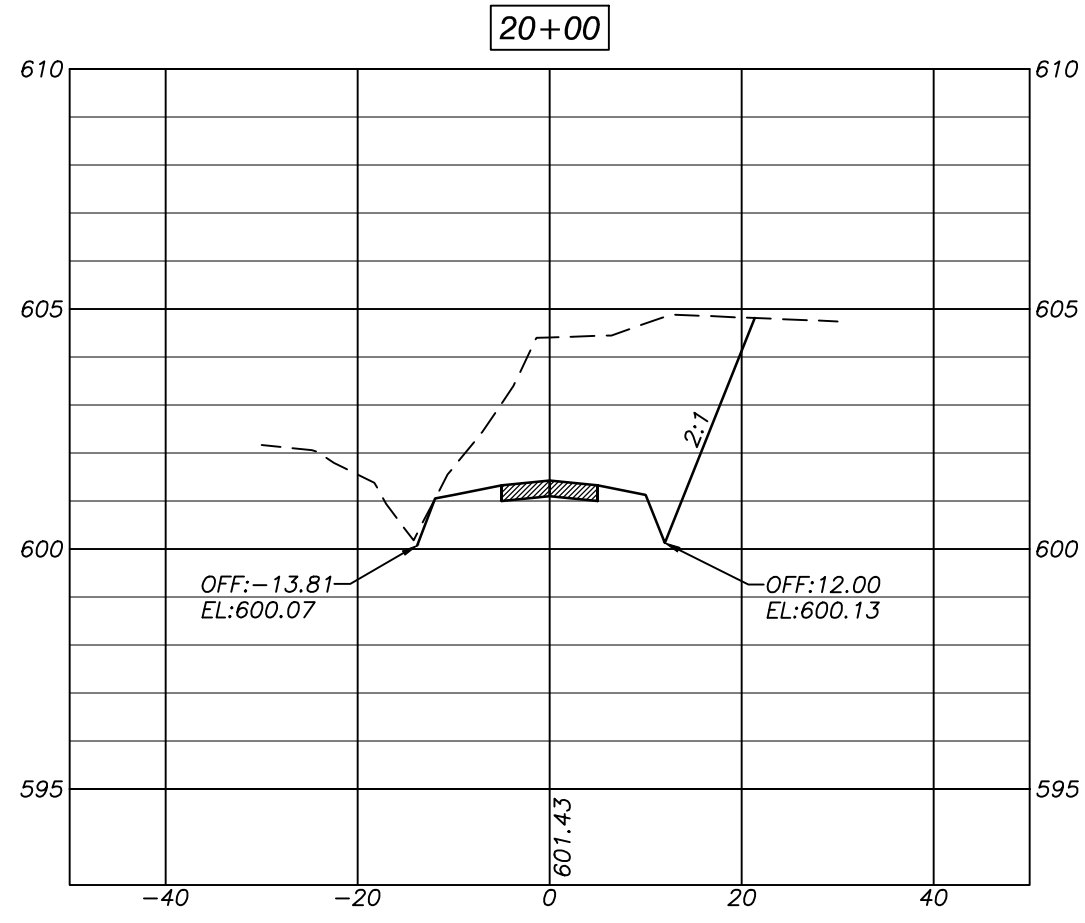
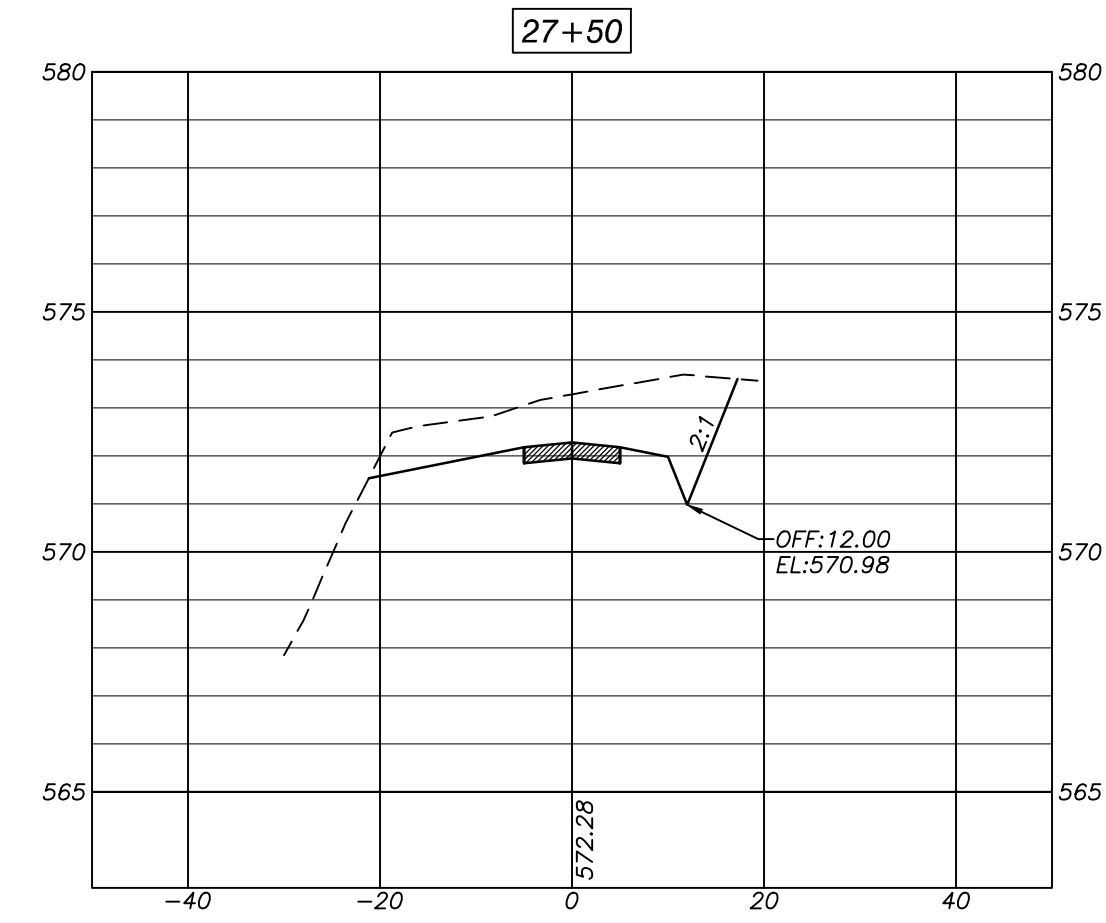
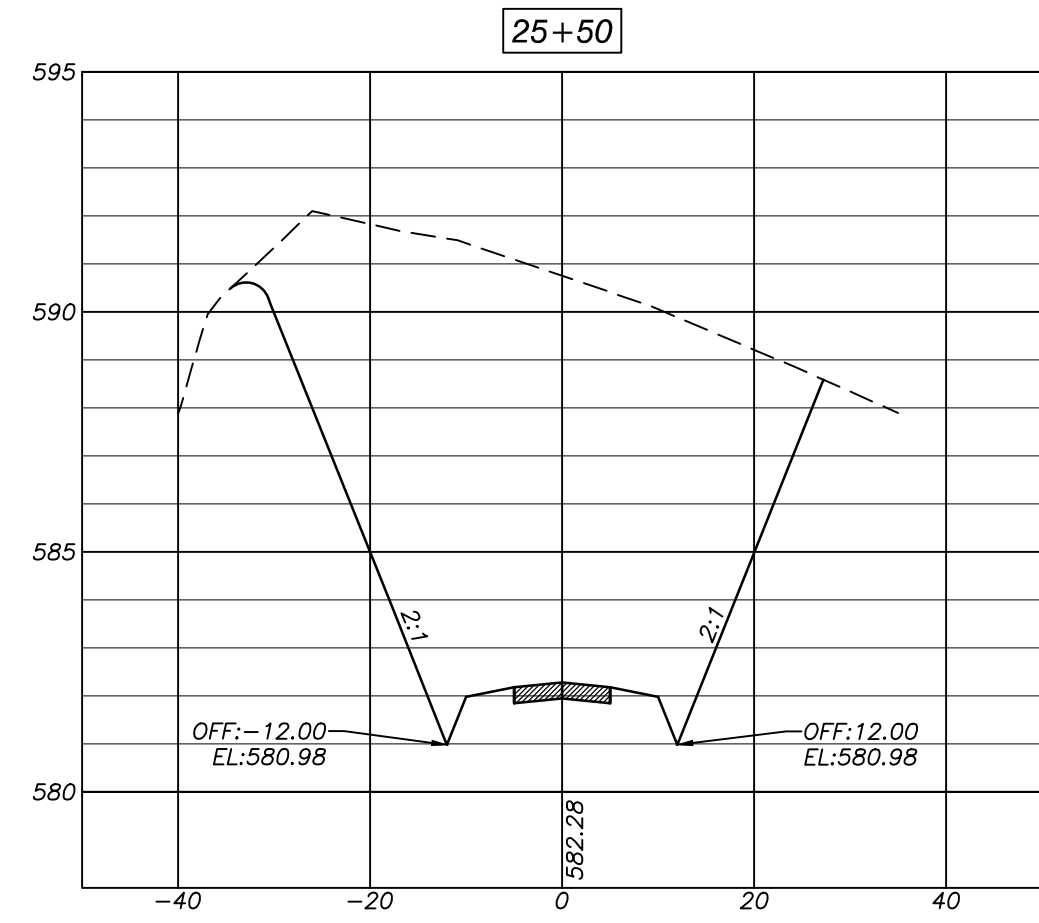
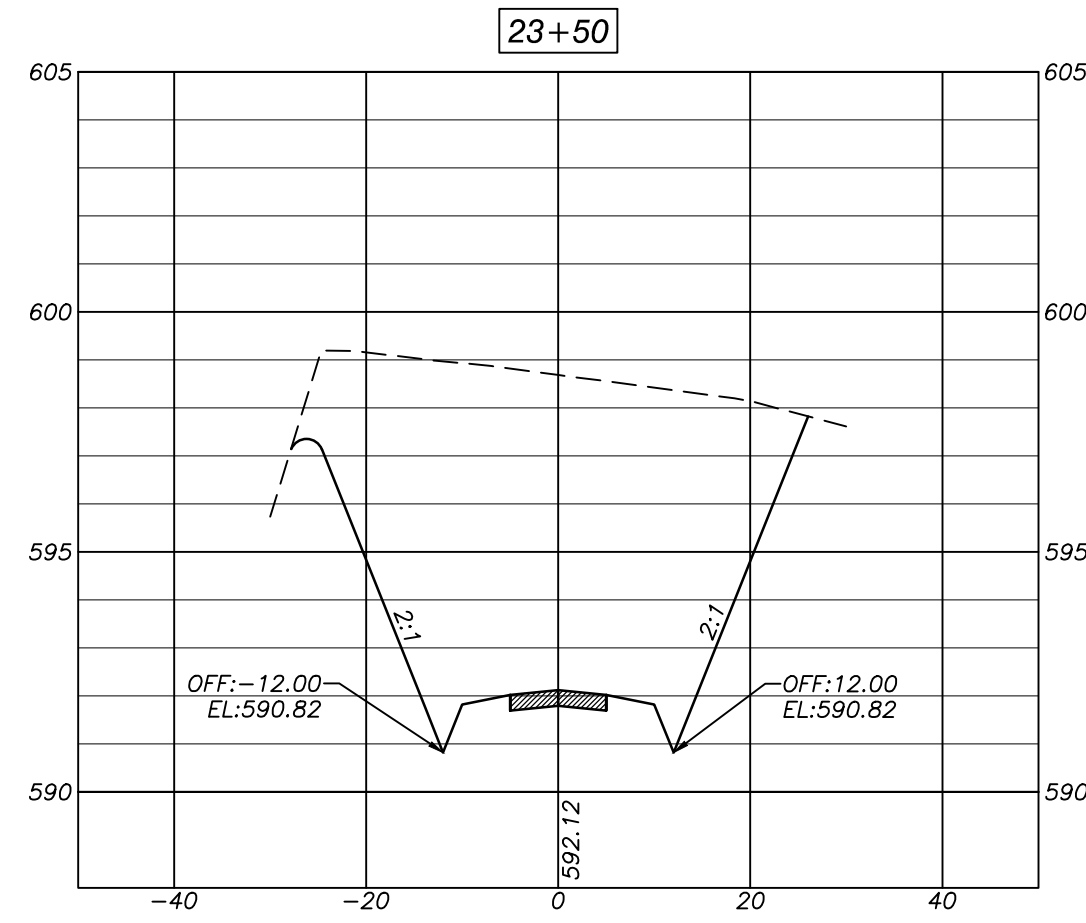
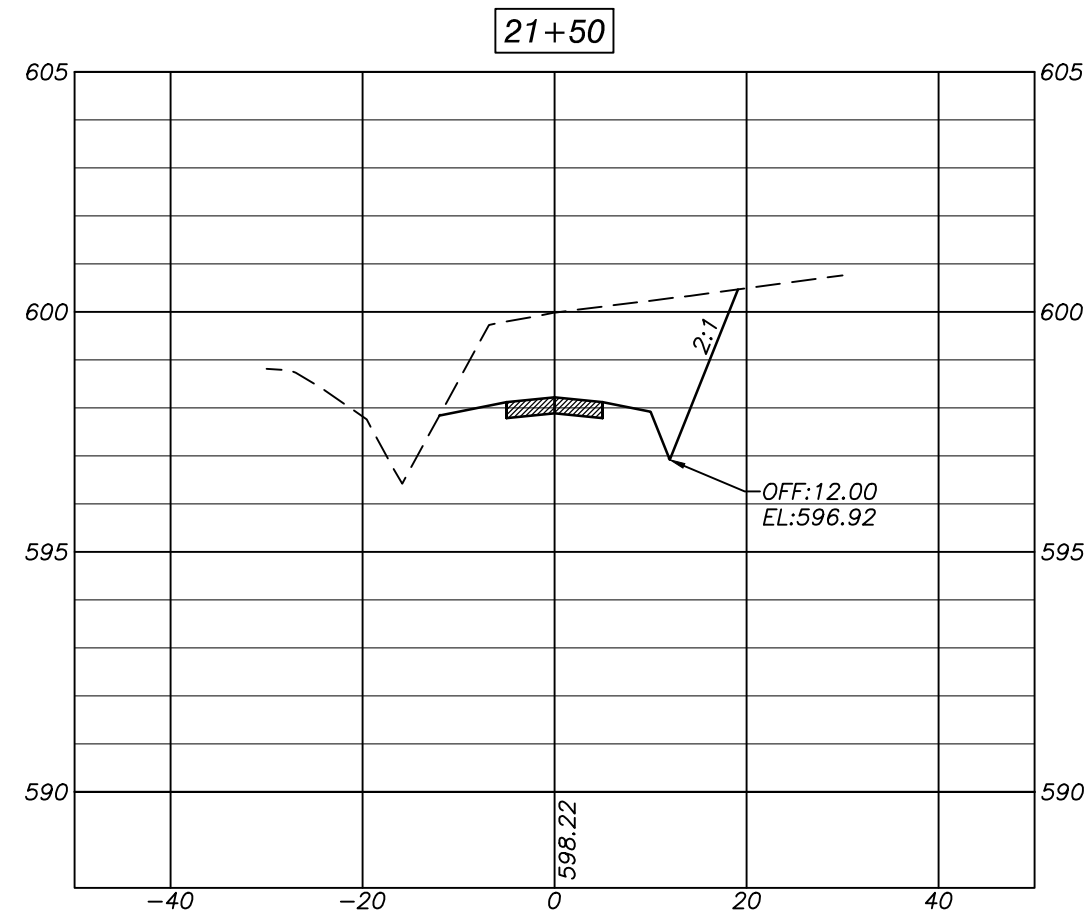
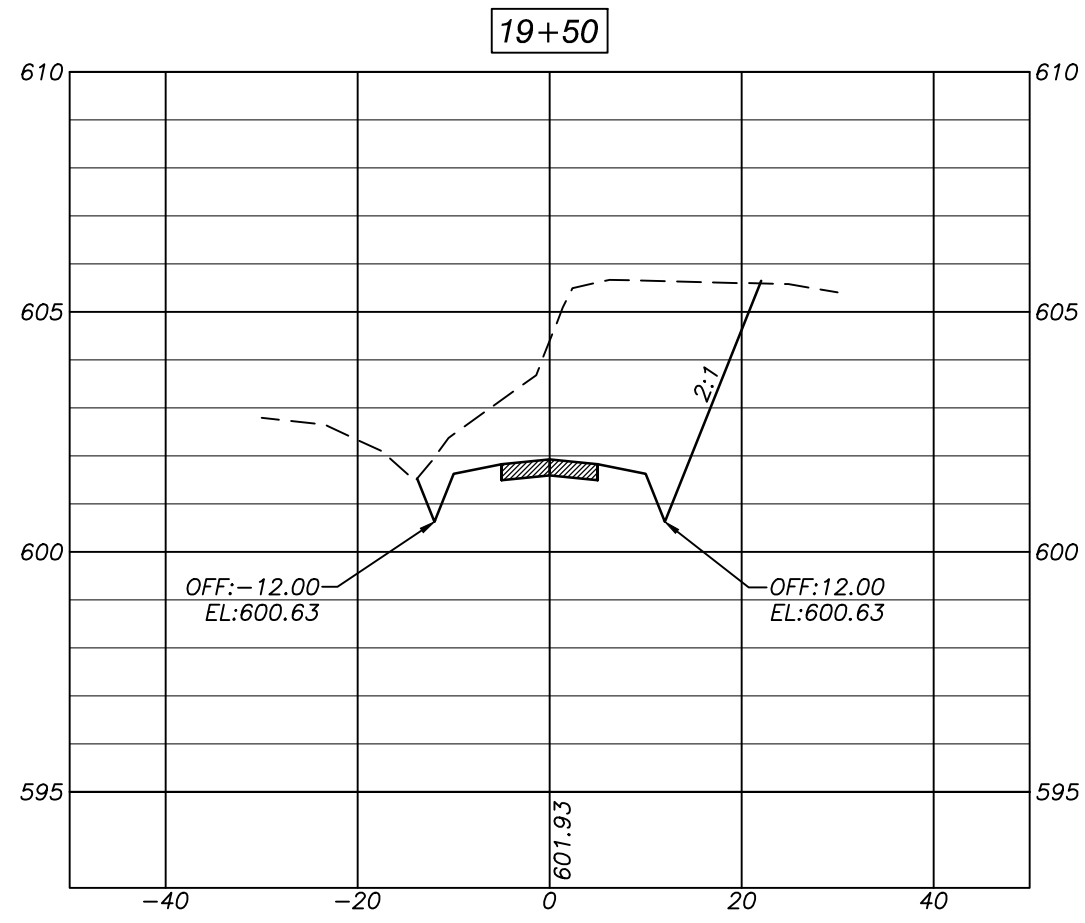
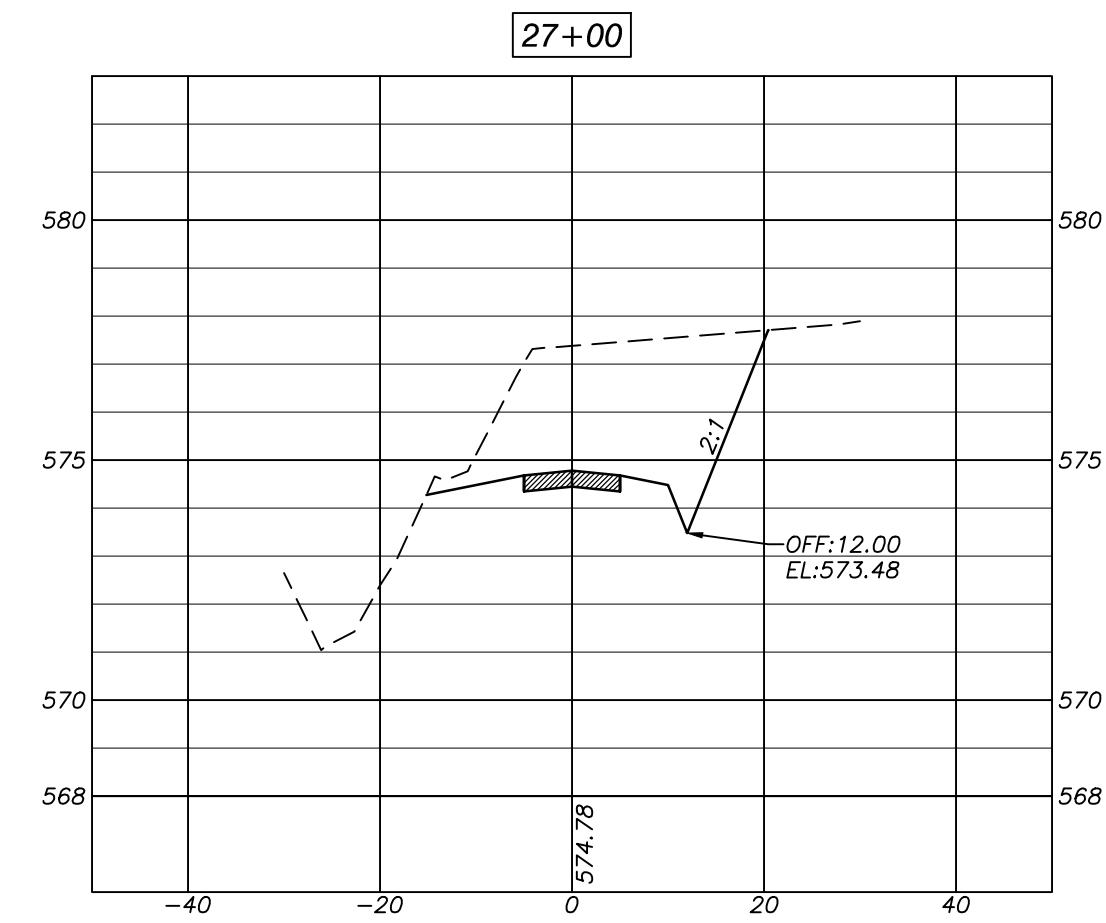
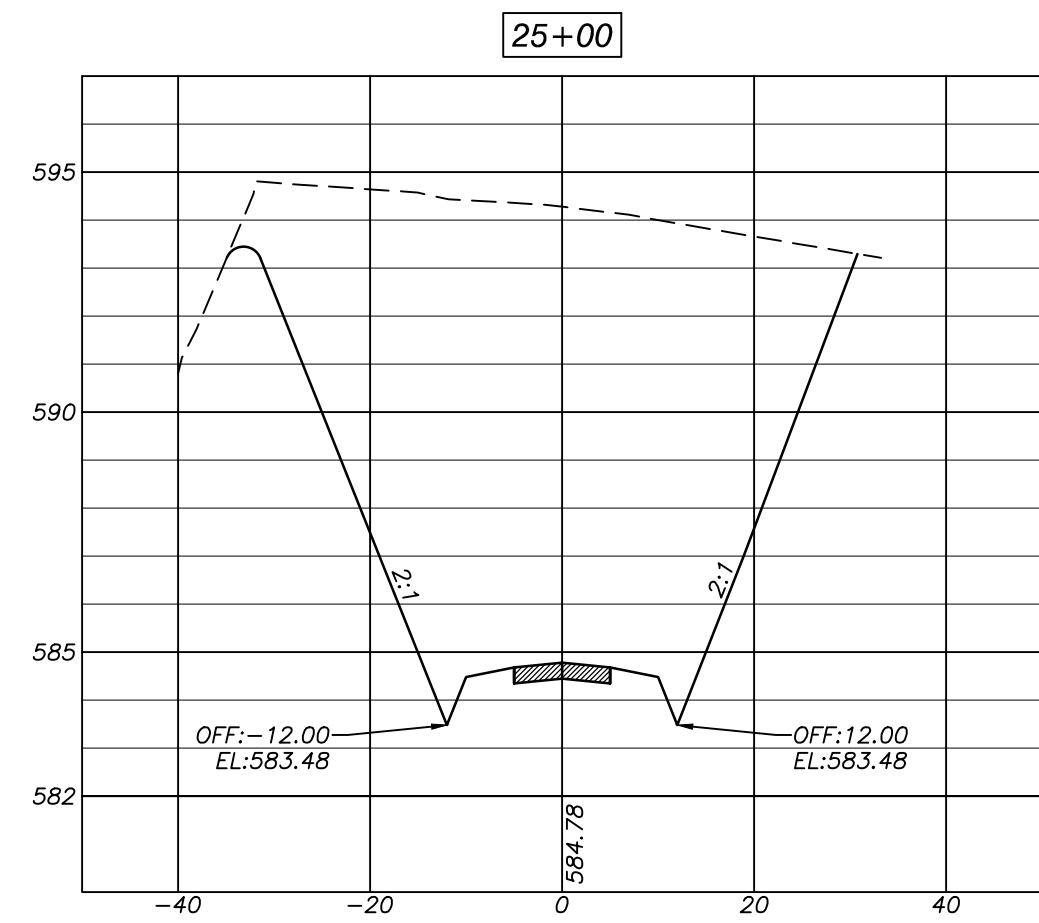
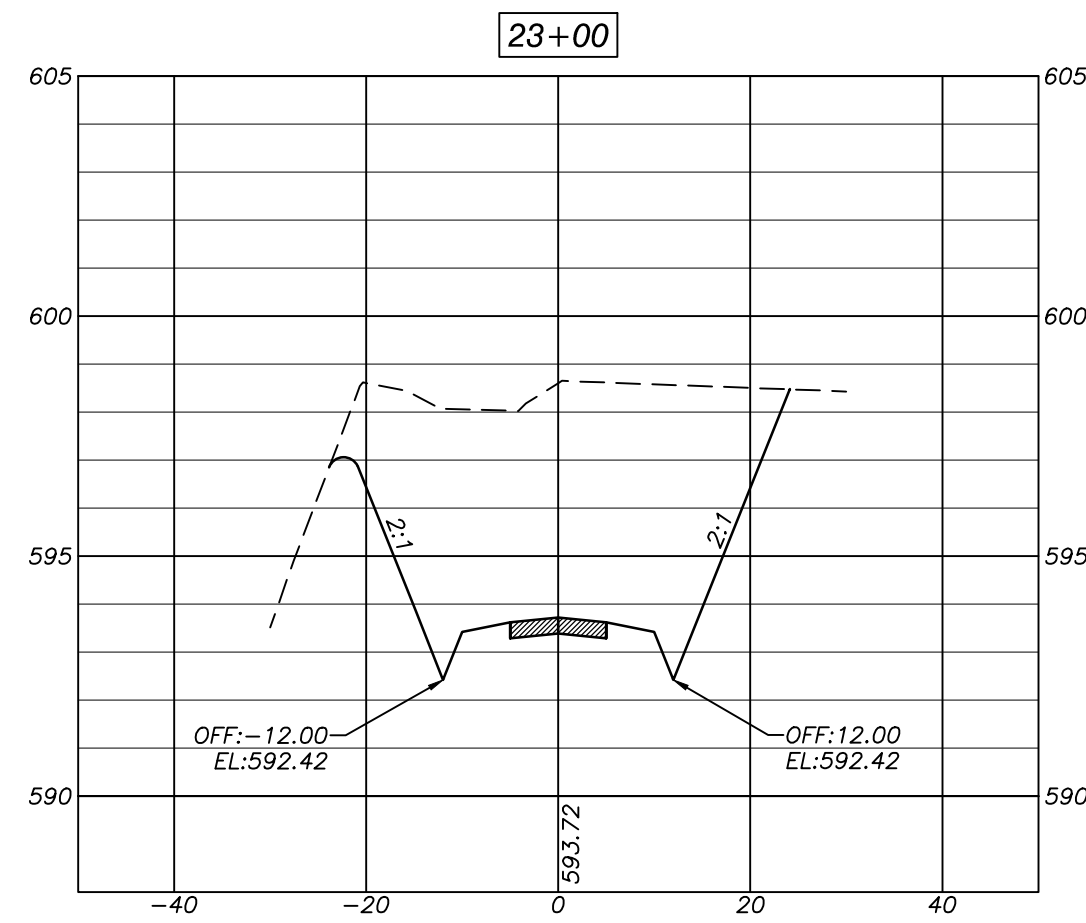
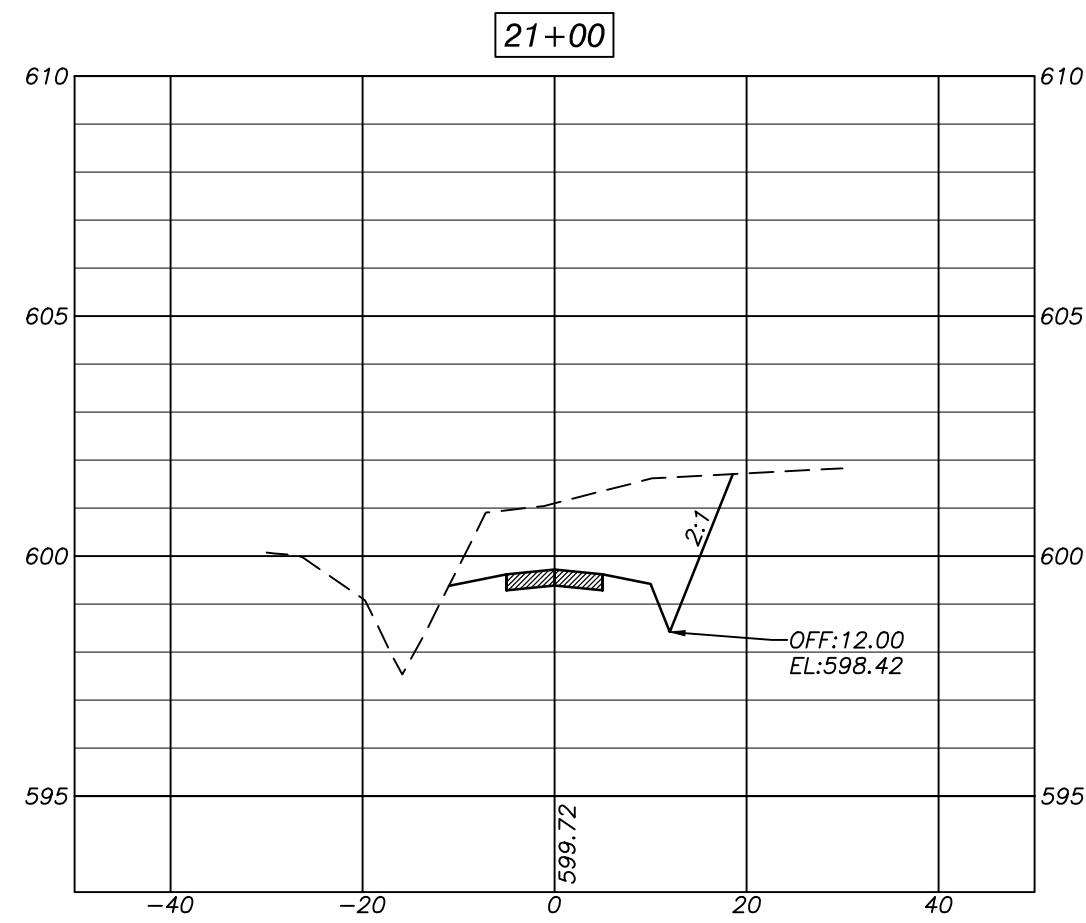
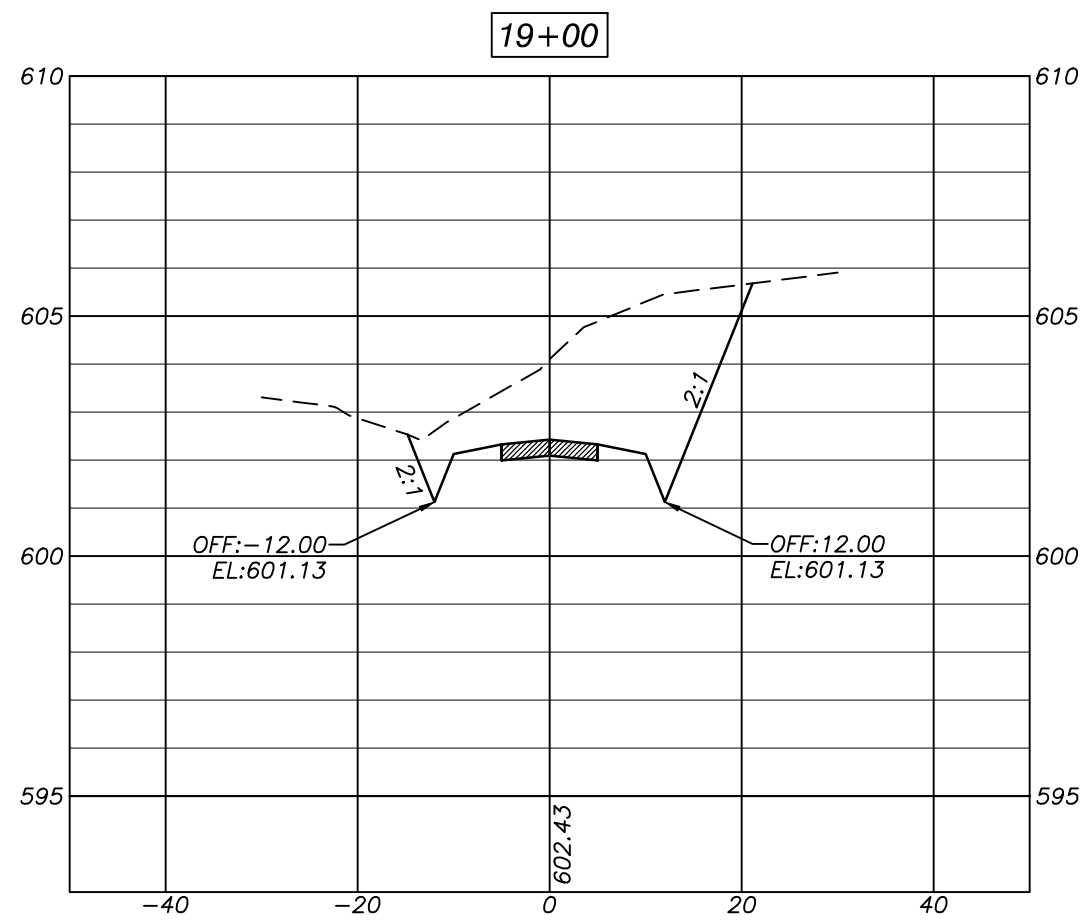
SCALES  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'



REV. 1/27/15 PER NCDOT COMMENTS

NCDOT PROJECT NO. EB-3314 E	
PROPOSED SIDEWALK IMPROVEMENTS FOR	
TOWN OF YANCEYVILLE	
YANCEYVILLE, NORTH CAROLINA YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC	
alley, williams, carmen & king, inc. ENGINEERS, ARCHITECTS & SURVEYORS 740 chapel hill road burlington, n.c. 27215	
p.o. box 1179 336/226-5534 Firm's Engineering License No. F-0203	
DATE: 8/15/14	JOB NO. 13069
DRAWN BY: WDF	DWG NAME: 13069(10153)BASE.DWG
CHECKED BY: MDR	SHEET NO. 10.2
CROSS SECTIONS	



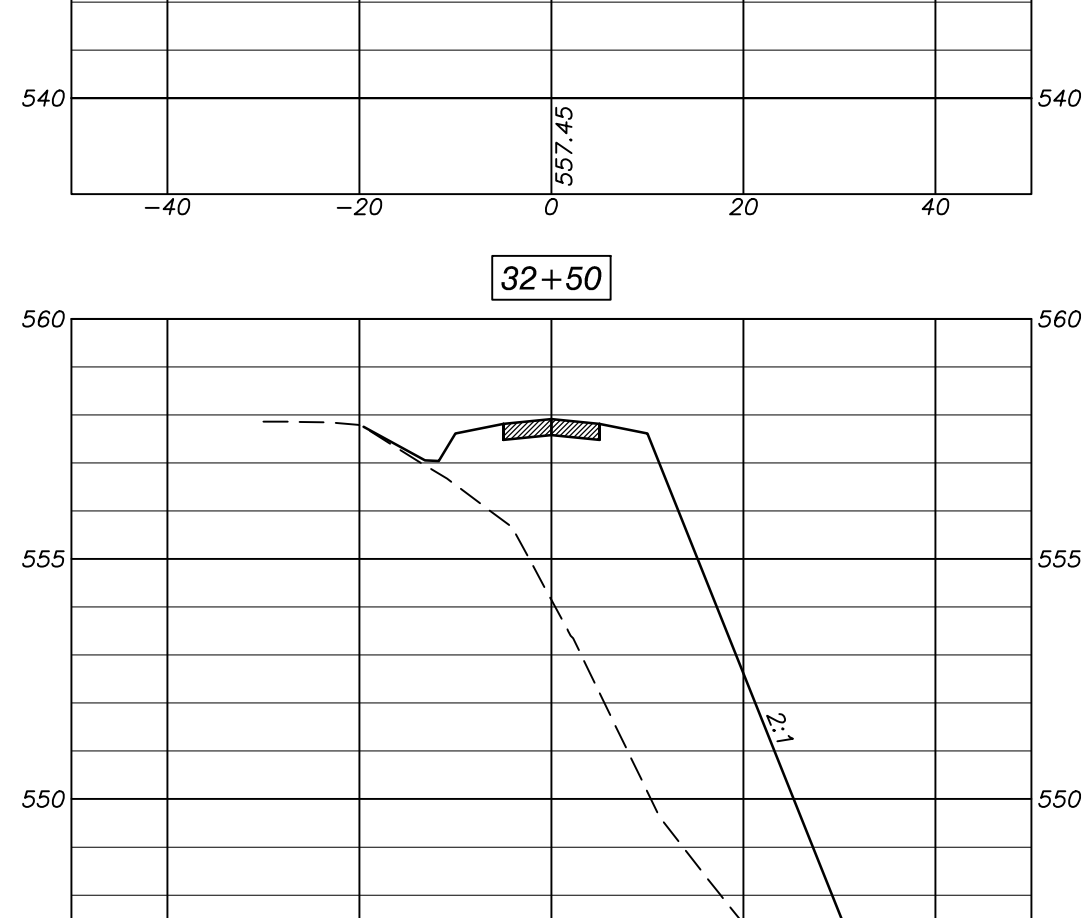
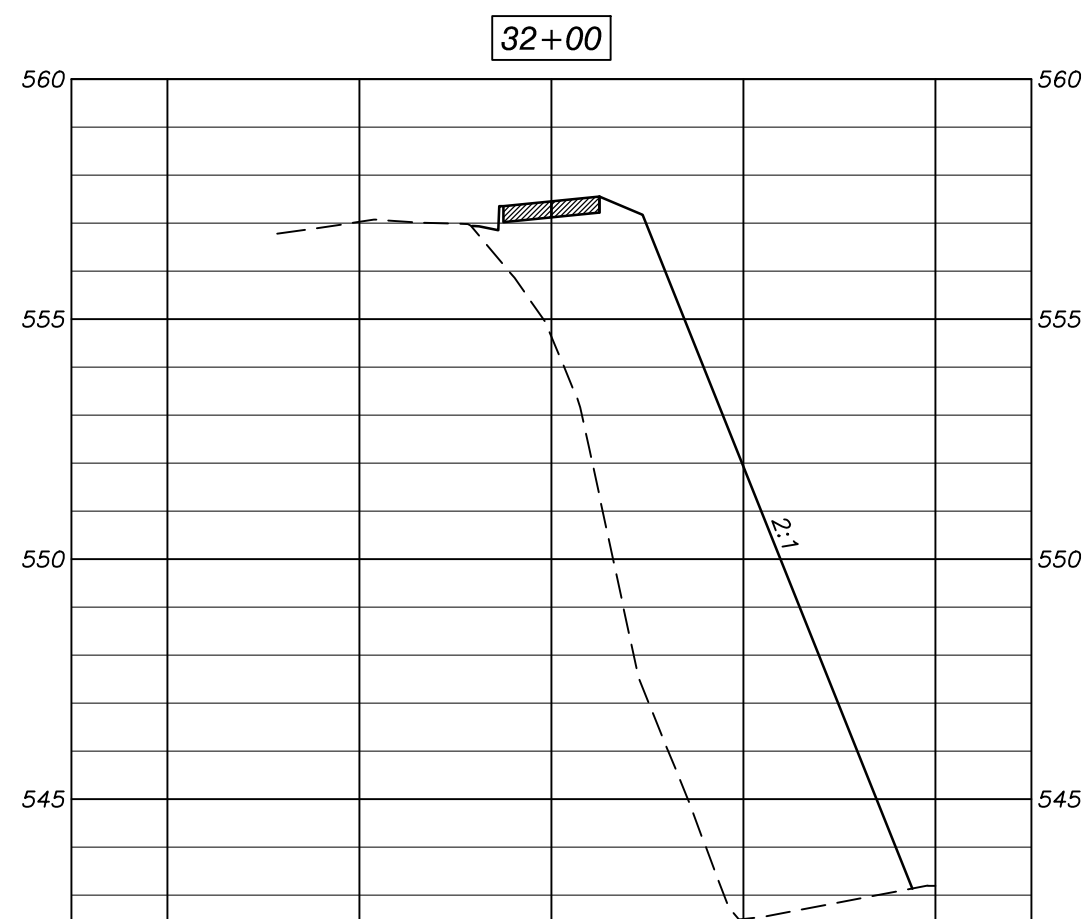
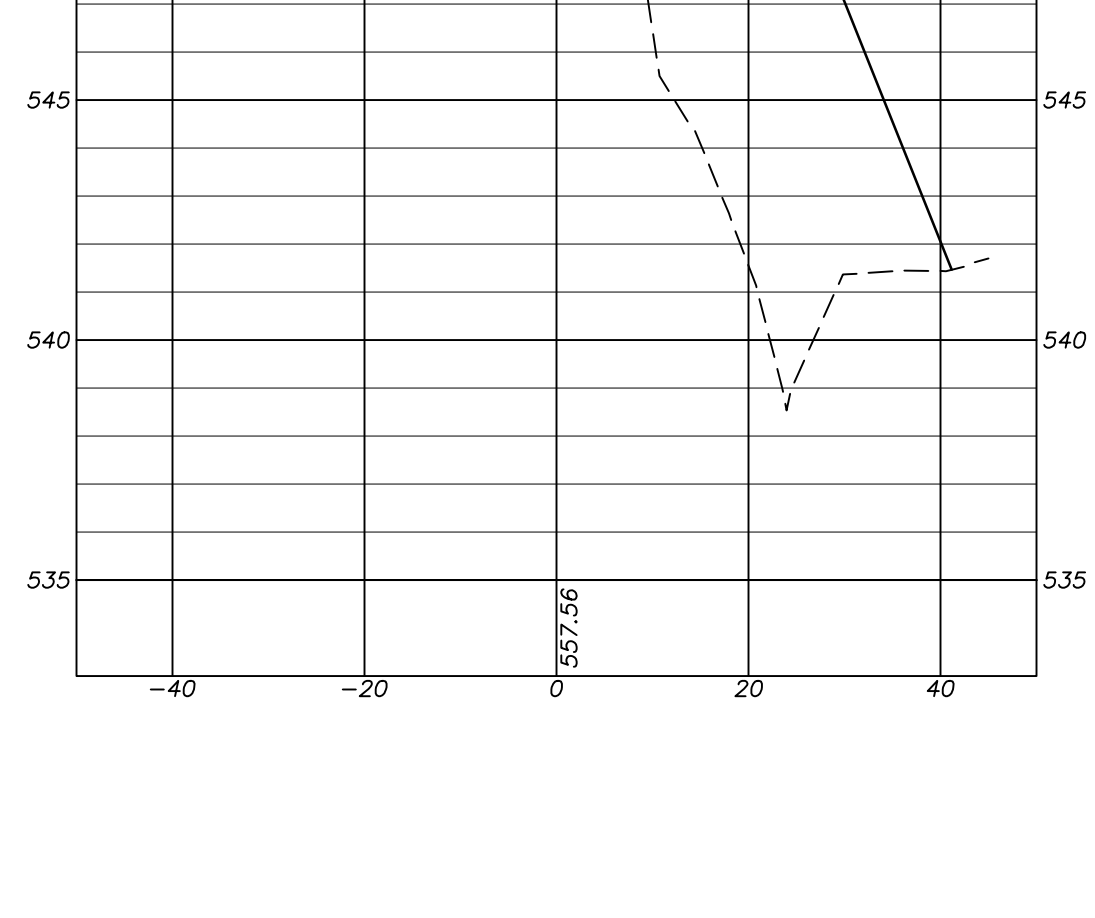
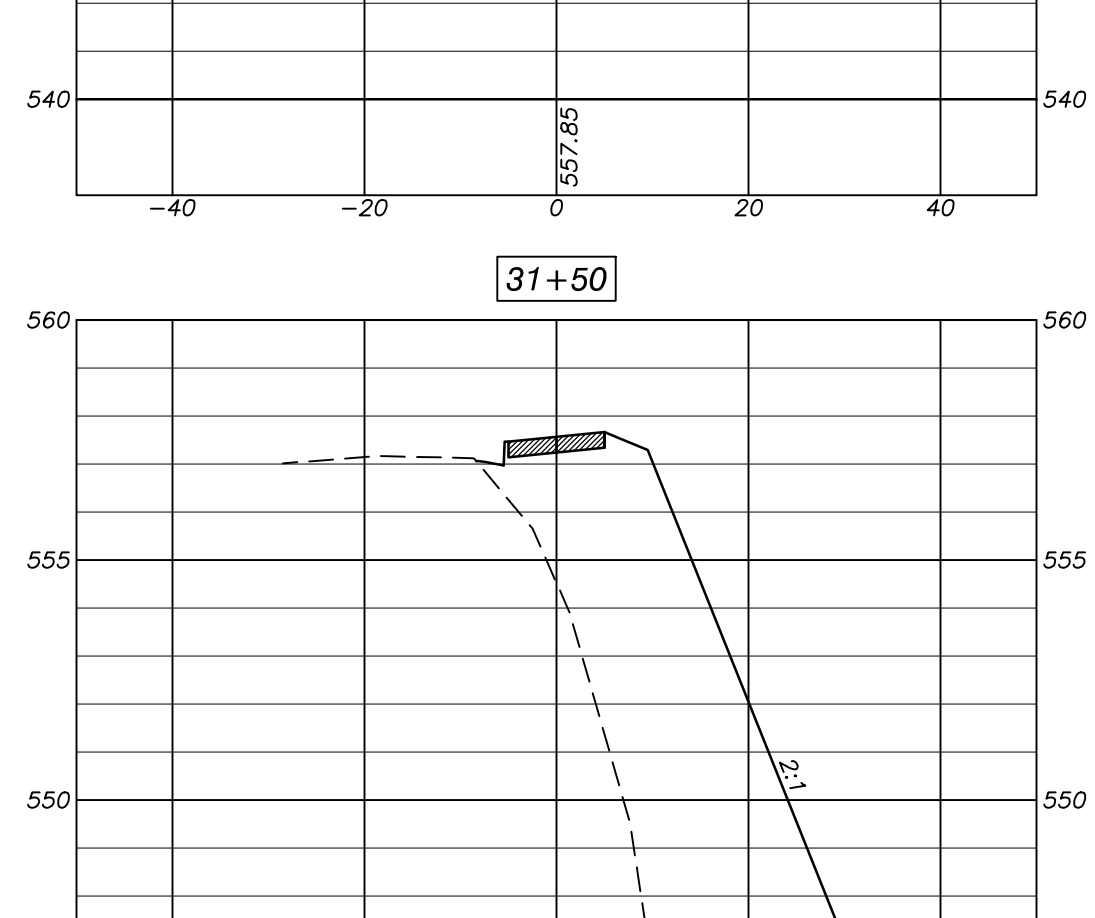
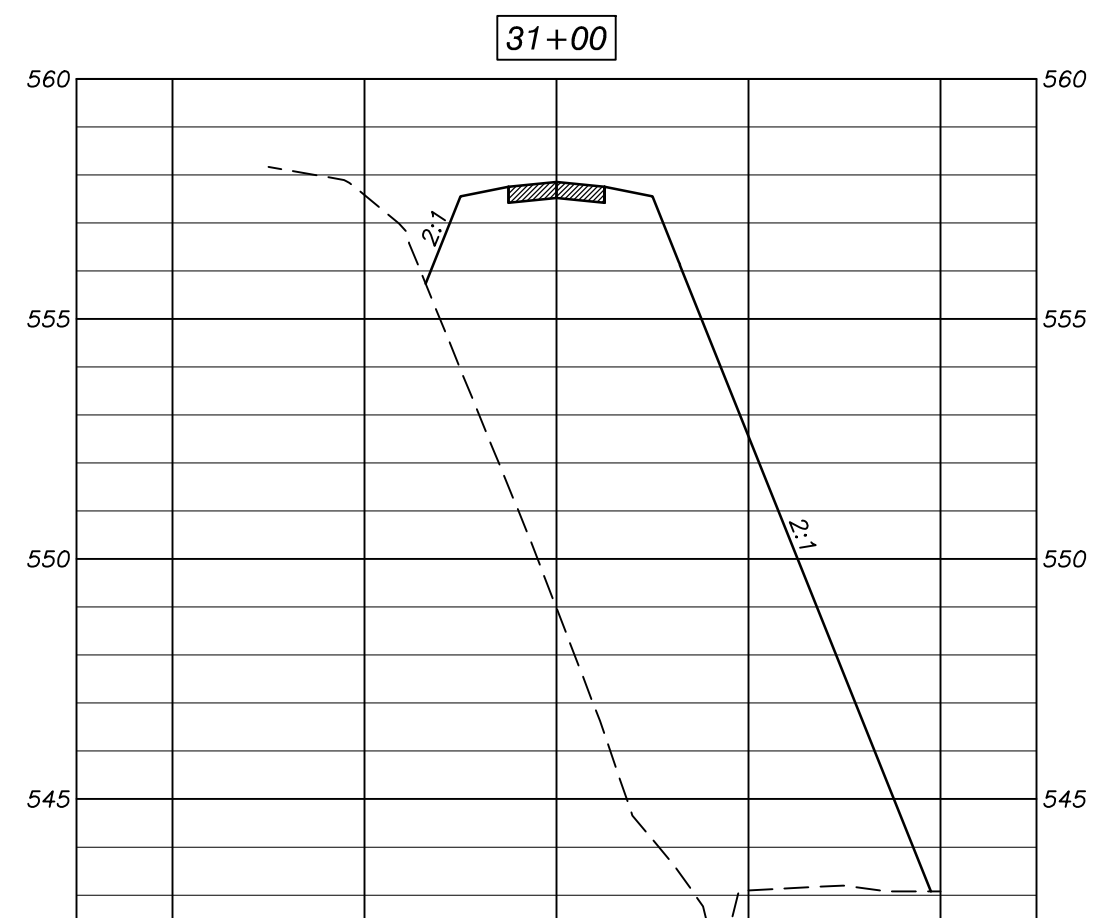
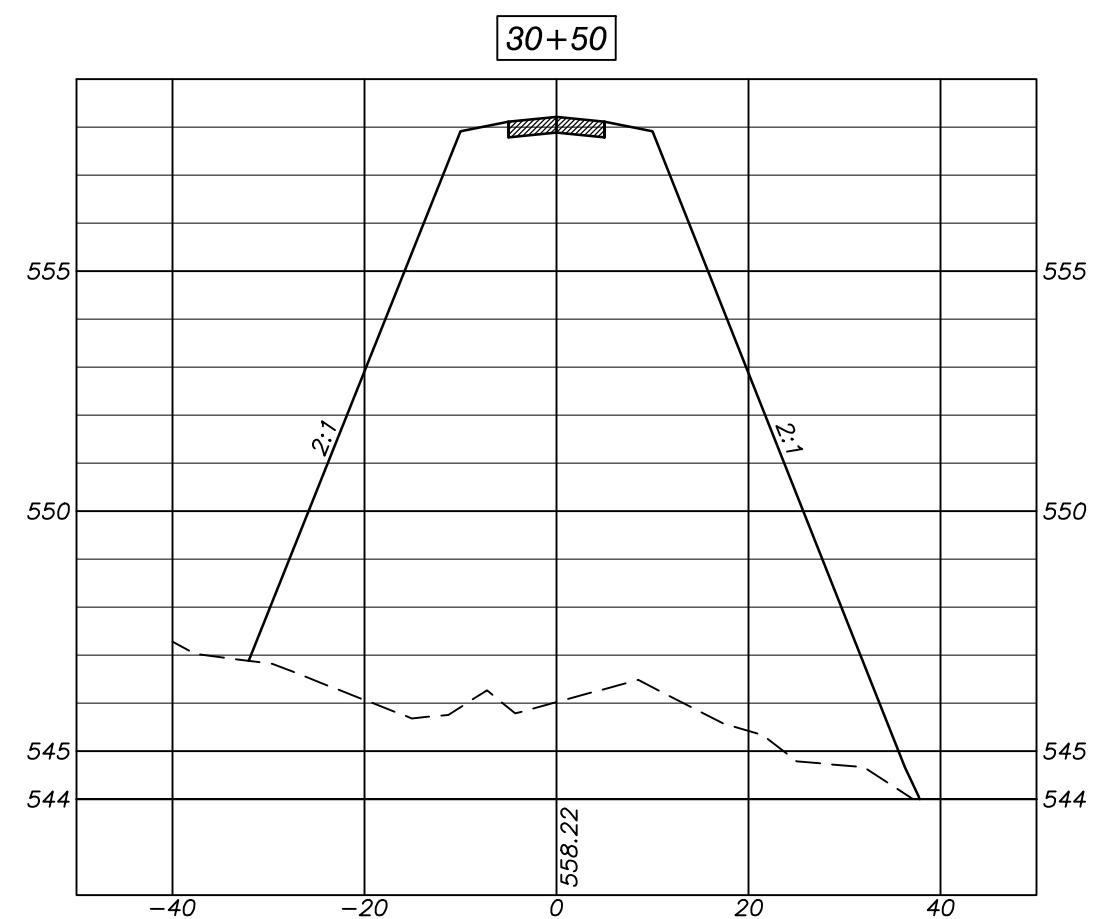
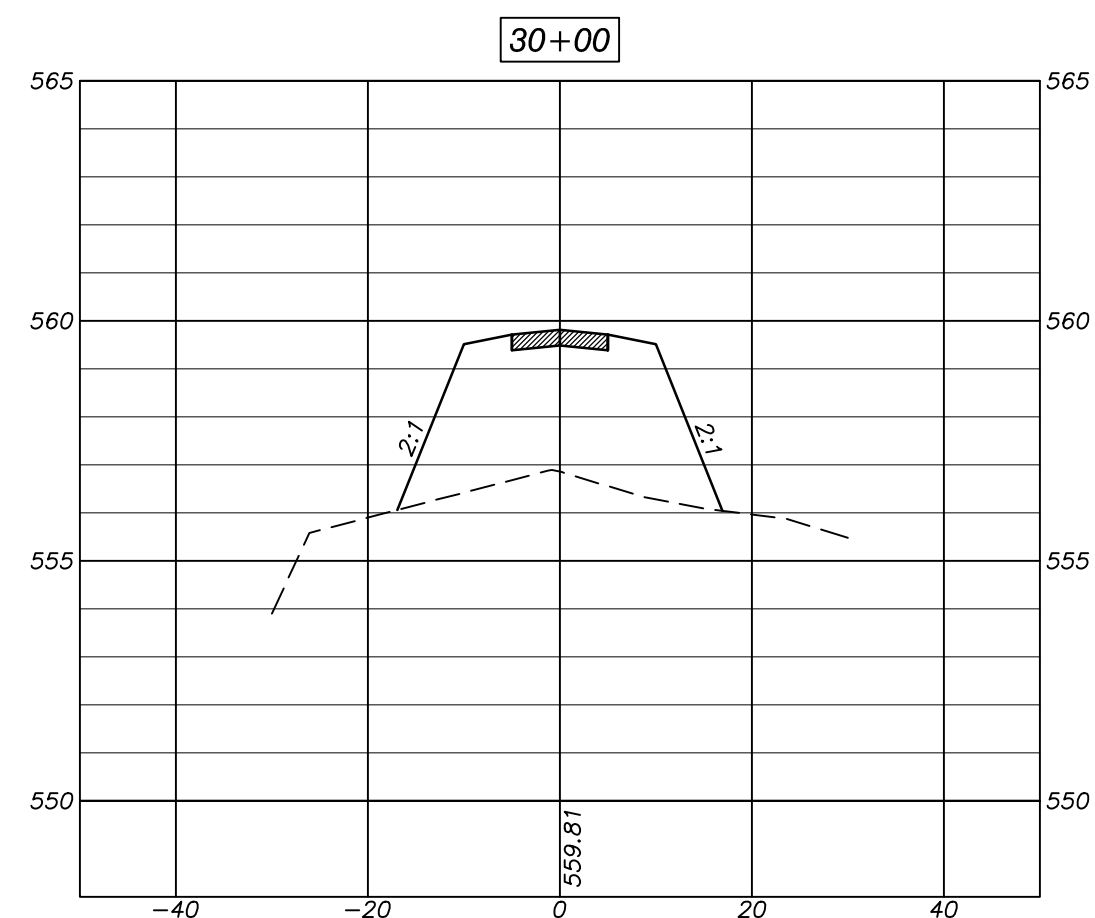
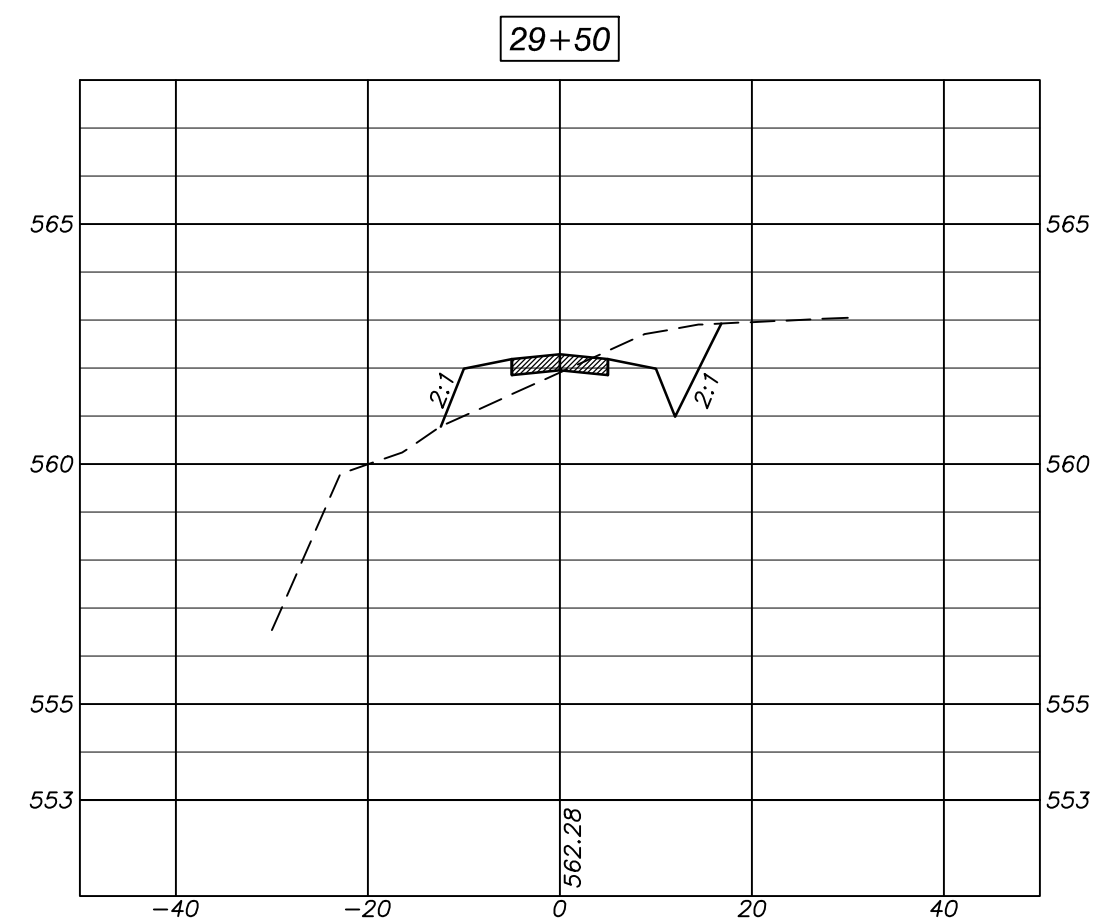
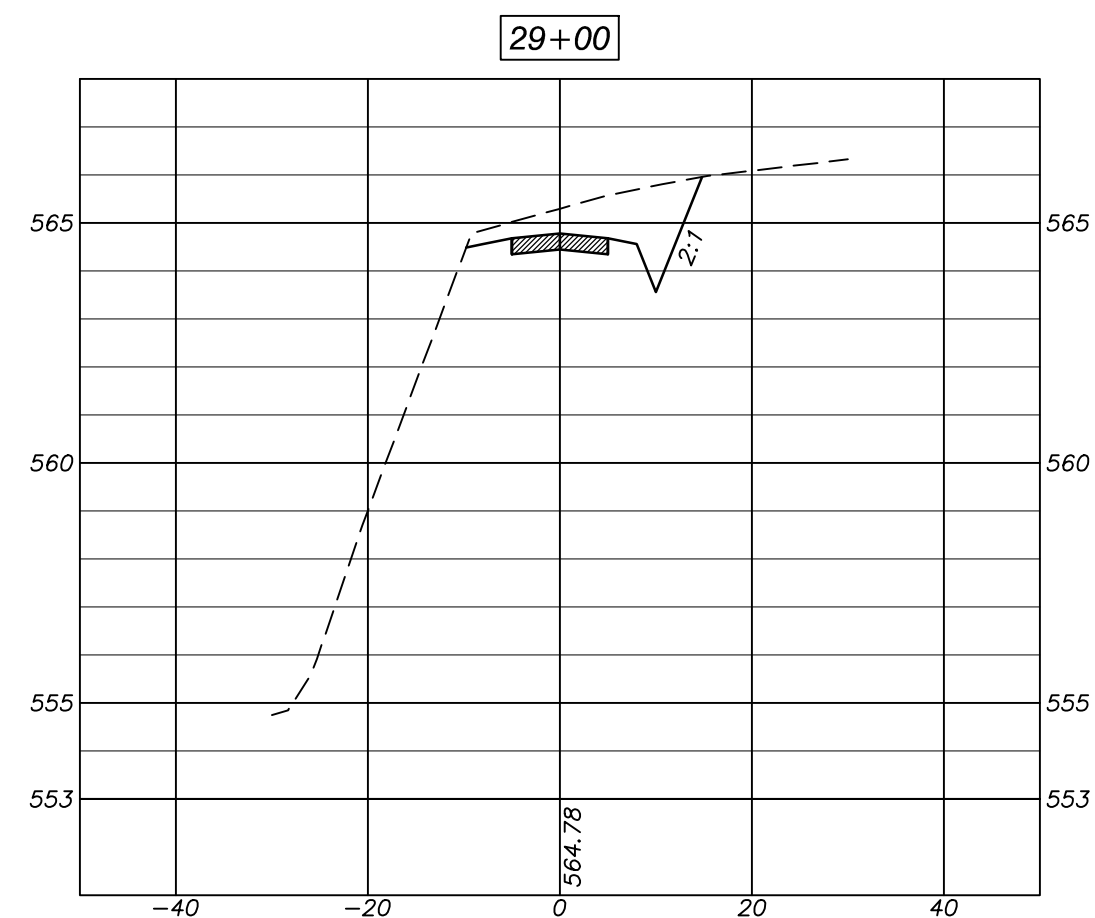
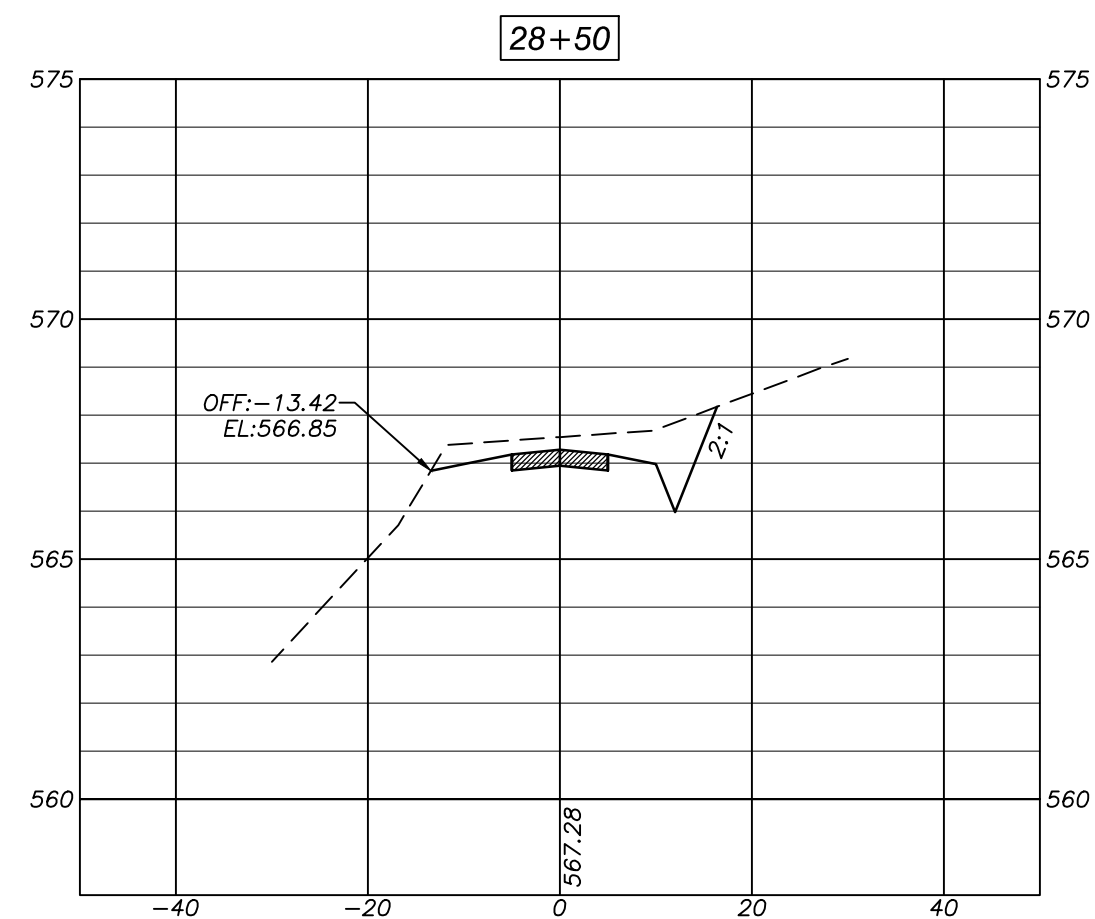


**SCALES**  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'



NCDOT PROJECT NO. EB-3314 E	
PROPOSED SIDEWALK IMPROVEMENTS FOR	
<b>TOWN OF YANCEYVILLE</b>	
YANCEYVILLE, NORTH CAROLINA YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC	
alley, williams, carmen & king, inc. ENGINEERS, ARCHITECTS & SURVEYORS 740 chapel hill road p.o. box 1179 burlington, n.c. 27215 336/226-5534 Firm's Engineering License No. F-0203	
DATE: 8/15/14	JOB NO. 13069
DRAWN BY: WDF	DWG NAME: 13069(10153)BASE.DWG SHEET NO.
CHECKED BY: MDR	<b>CROSS SECTIONS</b>
<b>10.3</b>	





**SCALES**  
HORIZONTAL: 1" = 20'  
VERTICAL: 1" = 4'



NCDOT PROJECT NO. EB-3314 E	
PROPOSED SIDEWALK IMPROVEMENTS FOR	
<b>TOWN OF YANCEYVILLE</b>	
YANCEYVILLE, NORTH CAROLINA YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC	
alley, williams, carmen & king, inc. ENGINEERS, ARCHITECTS & SURVEYORS 740 chapel hill road p.o. box 1179 burlington, n.c. 27215 336/226-5534 Firm's Engineering License No. F-0203	
DATE: 8/15/14	JOB NO. 13069
DRAWN BY: WDF	DWG NAME: 13069(10153)BASE.DWG
CHECKED BY: MDR	SHEET NO. <b>10.4</b>
CROSS SECTIONS	



# LEGEND :

TOW = TOP OF WALL  
TOF = TOP OF FOOTING

AREA OF RETAINING WALL ABOVE GRADE

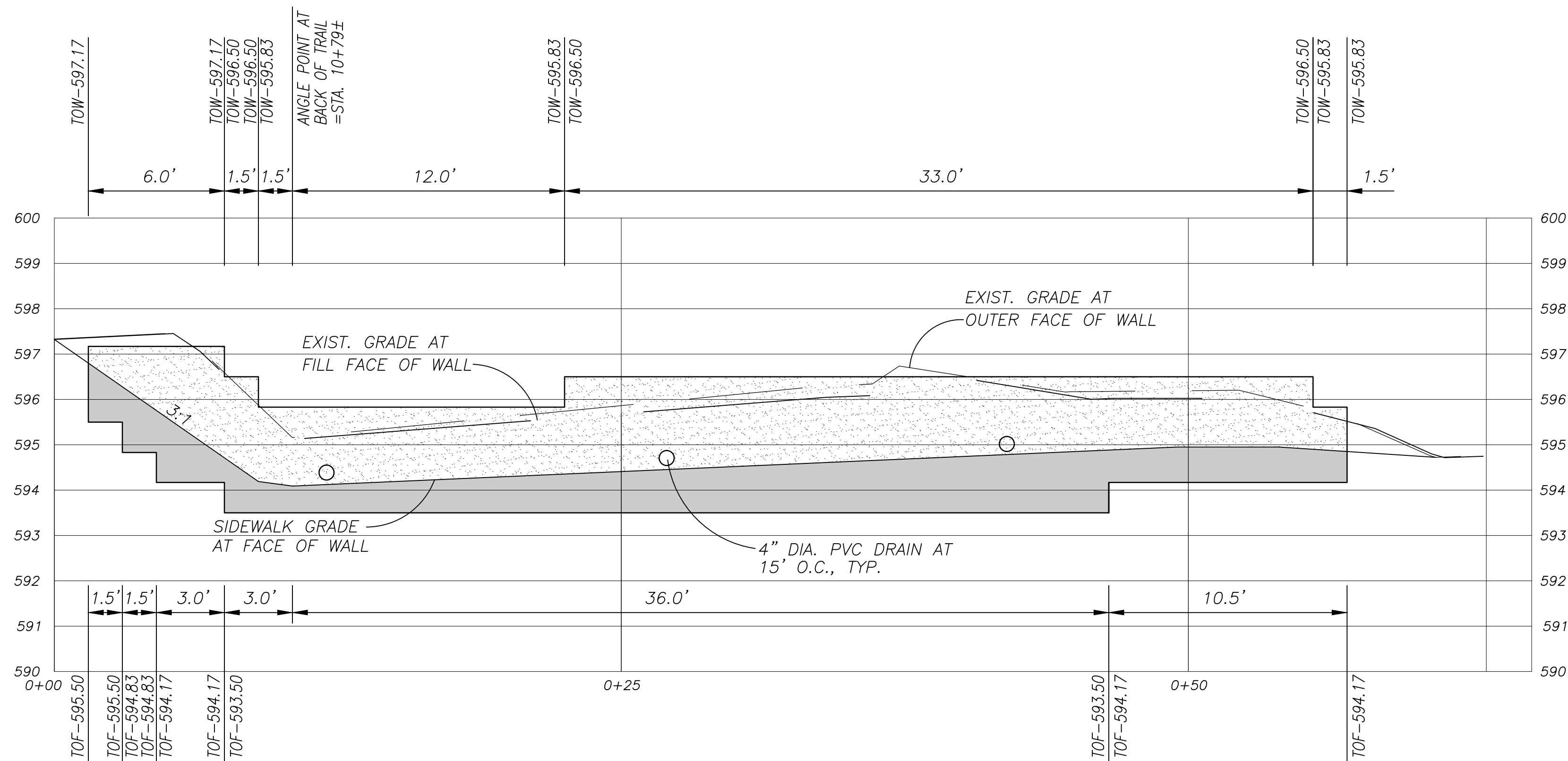
AREA OF RETAINING WALL BELOW GRADE

## SEGMENTAL RETAINING WALL NOTES:

1. CONTRACTOR SHALL PROVIDE ENGINEER WITH SHOP DRAWINGS.
2. OWNER TO SELECT COLOR FROM STANDARD COLORS OFFERED BY MANUFACTURER.

STATIONS PROVIDED ARE CENTERLINE OF RETAINING WALL. STEPS IN TOP OF WALL AND BOTTOM OF WALL PROVIDED IN 1'S INCREMENTS. ACTUAL LOCATION OF POINTS OF CURVATURE (PC) AND TANGENCY (PT) MAY VARY TO ACCOUNT FOR VARIANCES OF SEGMENTAL SECTION AS WELL AS BEGINNING OR ENDING OF WALL LOCATIONS (0.5±).

	ABOVE GRADE	BELOW GRADE	TOTAL AREA
RETAINING WALL NO. 1 :	93.9 S.F.	52.4 S.F.	146.3 S.F.



RETAINING WALL NO. 1

## SCALES

HORIZONTAL : 1" = 4'  
VERTICAL : 1" = 2'

SEE SHEET 5 FOR PLAN VIEW

## NOTES:

FOR STANDARD SEGMENTAL GRAVITY RETAINING WALLS, SEE SEGMENTAL GRAVITY RETAINING WALL PROVISIONS.

FOR STEEL BEAM GUARDRAILS, SEE ROADWAY PLANS AND SECTION 802 OF THE STANDARD SPECIFICATIONS.

DO NOT ATTACH FENCES OR HANDRAILS TO STANDARD SEGMENTAL GRAVITY WALLS.

DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS FOR INTERSTATE COLUMBIAN OR BALDWIN PROJECTS.

DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS WHEN SURFACE LOADS WILL BE WITHIN 5'-0" OF THE BACK OF THE WALL.

DO NOT USE STANDARD SEGMENTAL GRAVITY WALLS WHEN VERY LOOSE OR SOFT SOILS OR ROCK ARE PRESENT.

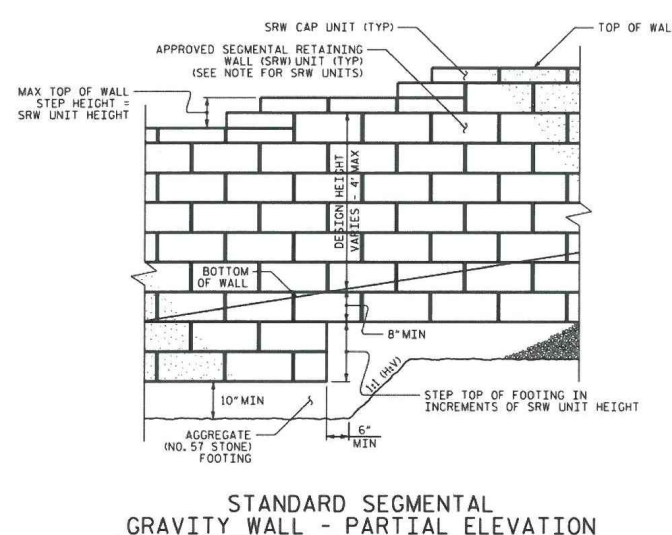
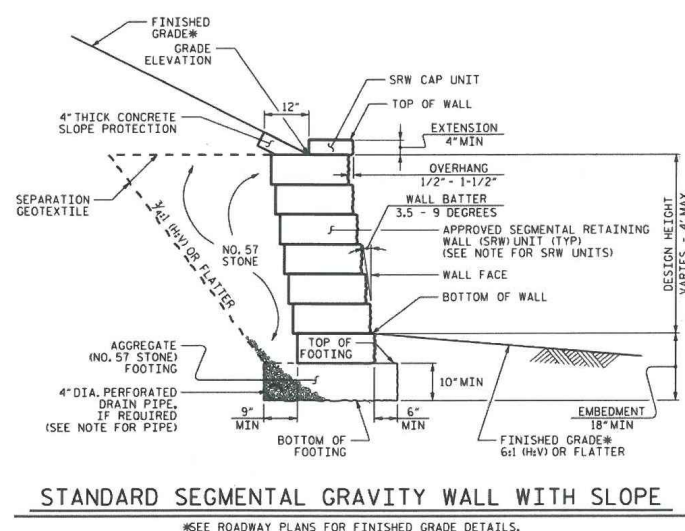
SEGMENTAL RETAINING WALLS SHALL BE APPROVED FOR EITHER 2' OR 4' MAXIMUM SECTION HEIGHTS, FOR DESIGN AND EMBODIMENT OF IMPROVED SOIL UNITS AND MAXIMUM DESIGN HEIGHTS SHALL BE APPROVED BY THE ENGINEER.

DO NOT USE APPROVED SOIL UNITS FROM DIFFERENT VENDORS ON THE APPROVED SOIL UNITS FOR EACH WALL SECTION.

BEFORE BEGINNING STANDARD SEGMENTAL GRAVITY WALL CONSTRUCTION, SURVEY WALL LOCATIONS AND QUANTITY WALL PROFILES. TEST WALLS AND SECTION HEIGHTS FOR WALL INSTALLATION. APPROVE OR REJECT ELEVATIONS AS NEEDED AT INTERVALS OF 5' OR LESS ALONG WALLS. REJECT WALL CONSTRUCTION WHEN WALL ELEVATIONS ARE APPROVED.

A DRAIN PIPE IS REQUIRED IF GROUNDWATER IS ABOVE BOTTOM OF FOOTING.

DO NOT PLACE NO. 12 STONE FOR FOOTINGS UNLESS EXCAVATION IS APPROVED AND TOLERANCE MATERIAL HAS BEEN APPROVED.



PROJECT NO. \_\_\_\_\_ COUNTY \_\_\_\_\_

STATION: \_\_\_\_\_

SHEET OF \_\_\_\_\_

STANDARD DRAWING NO. 8582

STANDARD SEGMENTAL GRAVITY RETAINING WALL

DATE: 11-16-15



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RAILROAD

ENGINEERING UNIT

STANDARD SEGMENTAL GRAVITY RETAINING WALL

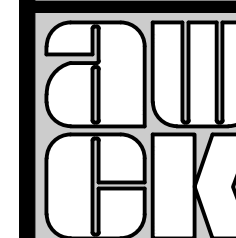
DATE: 11-16-15

NCDOT PROJECT NO. EB-3314 E

PROPOSED SIDEWALK IMPROVEMENTS FOR

TOWN OF YANCEYVILLE

YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC



alley, williams, carmen & king, inc.  
ENGINEERS, ARCHITECTS & SURVEYORS  
740 chapel hill road  
burlington, n.c. 27215  
p.o. box 1179  
336/226-5534  
Firm's Engineering License No. F-0203

DATE: 8/15/14

DRAWN BY: WDF

CHECKED BY: MDR

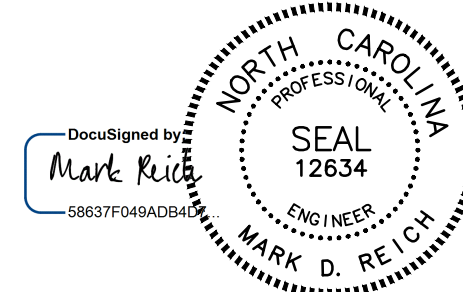
RETAINING WALL  
DETAILS

JOB NO. 13069

DWG NAME: 13069(10153)BASE.DWG

SHEET NO.

11



REV. 8/24/15 PER NCDOT COMMENTS  
REV. 1/27/15 PER NCDOT COMMENTS



[illegible][illegible]

JOINT NOTES:

1. PROVIDE EXPANSION JOINTS AT ALL LOCATIONS WHICH ABUTS EXISTING CONCRETE OR STRUCTURES.
2. MAXIMUM TRANSVERSE EXPANSION JOINT SPACING SHALL BE 40'.
3. TRANSVERSE GROOVE JOINT SPACING SHALL GENERALLY BE 5'. ENGINEER MAY ALLOW VARIANCES WHERE SIDEWALK TERMINATES AT DRIVEWAYS, STRUCTURES, ETC.
4. PROVIDE TRANSVERSE GROOVE JOINTS AT ALL ANGLE LOCATIONS OF SIDEWALK.
5. PROVIDE TRANSVERSE GROOVE JOINTS AT ALL DRIVEWAYS, THICKENED TO 6".

NOTE:  
ALL CONCRETE TO BE  
CLASS A 3000 PSI

SIDEWALK DETAILS  
NOT TO SCALE

The figure contains two technical drawings. The first, labeled 'GROOVE JOINT', shows a cross-section of a concrete sidewalk with a width of 4 inches. It features a central groove with a depth of 1/4 inch and a width of 1/8 inch. The groove is filled with a material labeled 'SEALANT'. The joint is labeled 'GROOVE JOINT'. The second drawing, labeled 'EXPANSION JOINT', shows a cross-section of a concrete sidewalk with a width of 4 inches. It features a central expansion joint with a depth of 3/8 inch and a width of 1/8 inch. The joint is filled with 'EXPANSION JOINT MATERIAL'. The joint is labeled 'EXPANSION JOINT'.

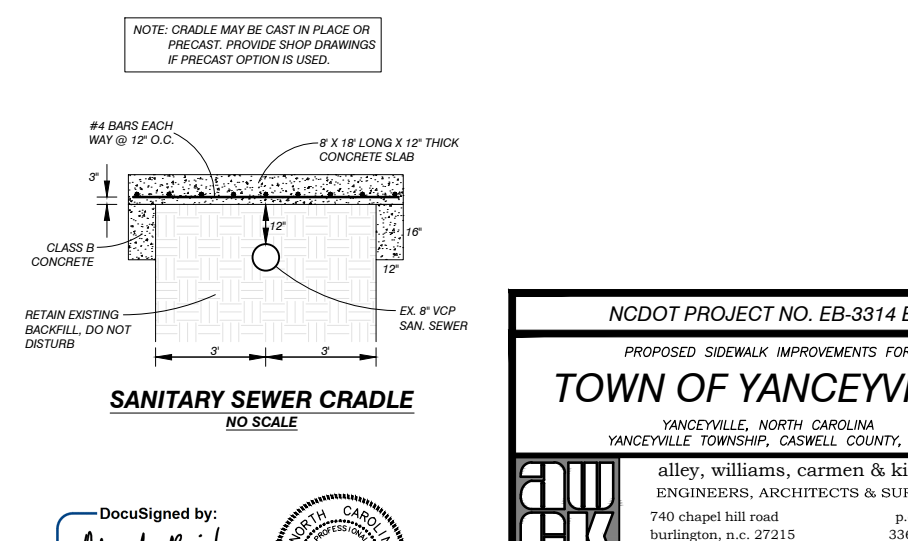
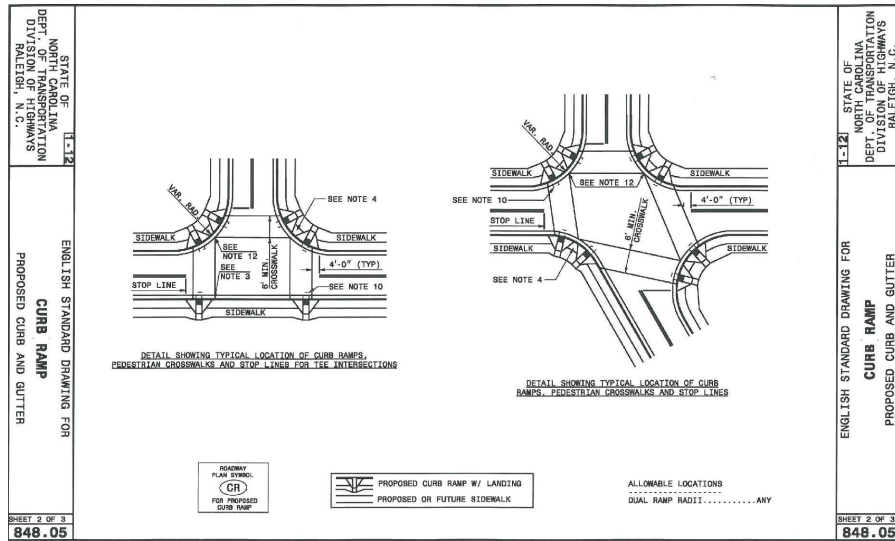
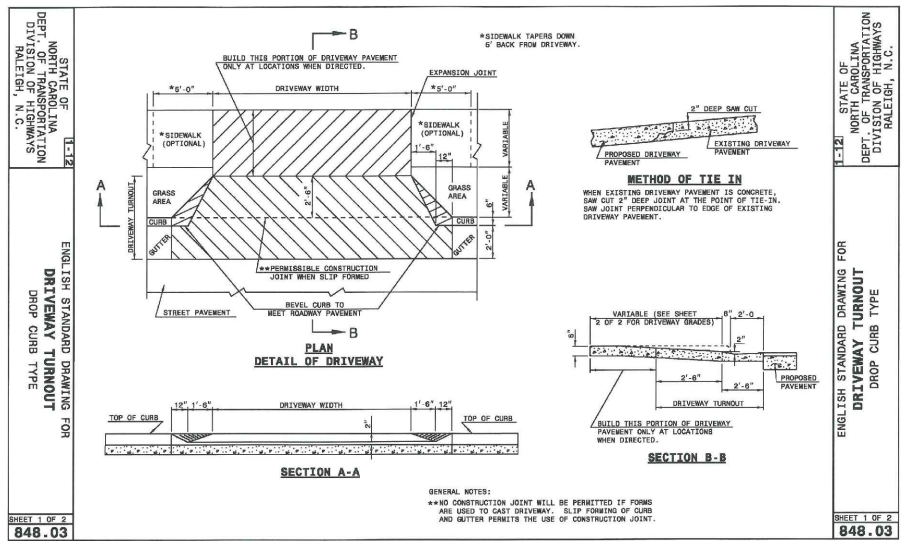
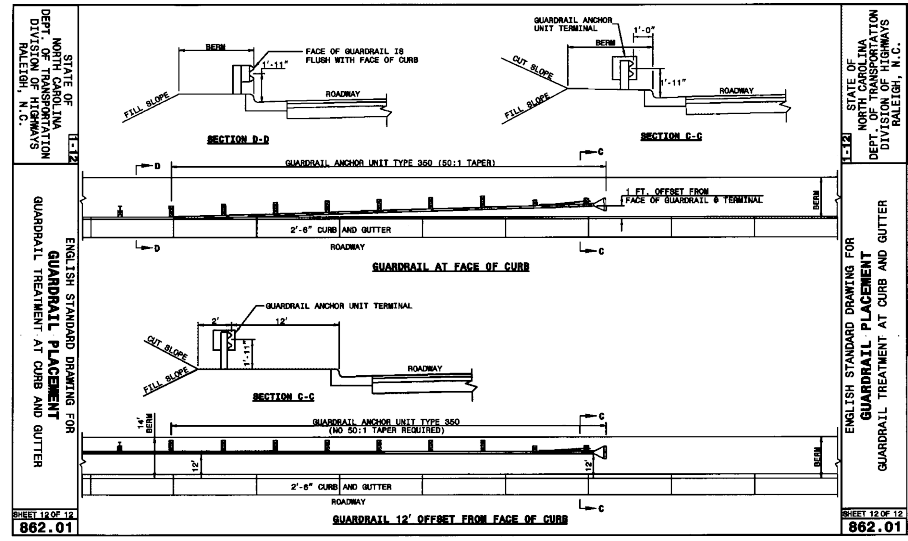
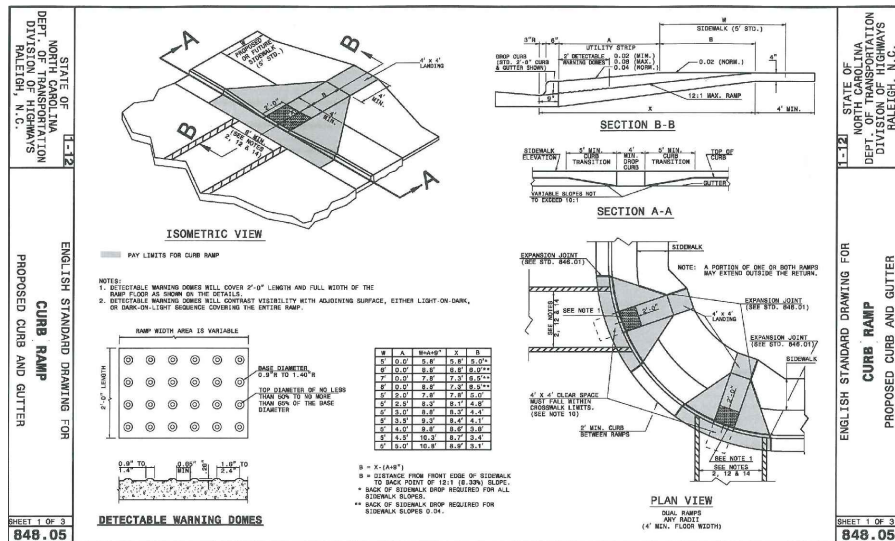
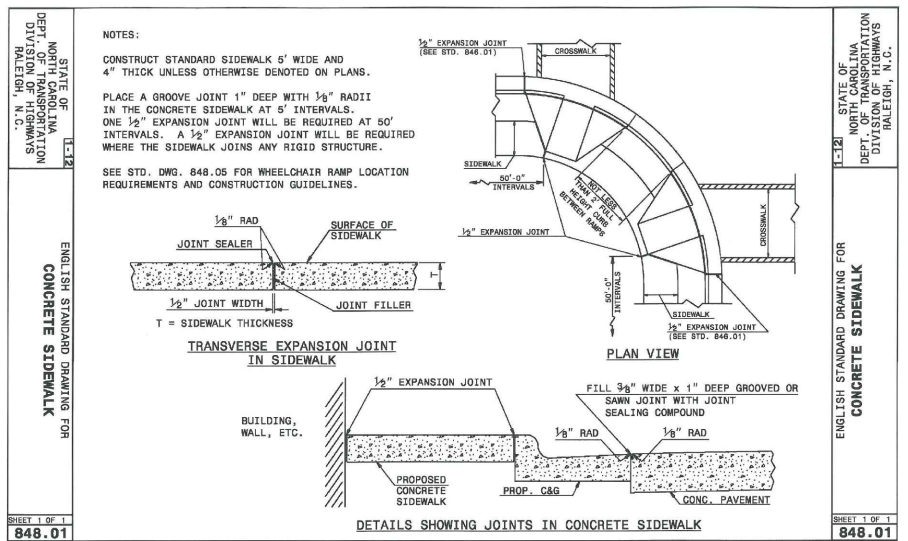
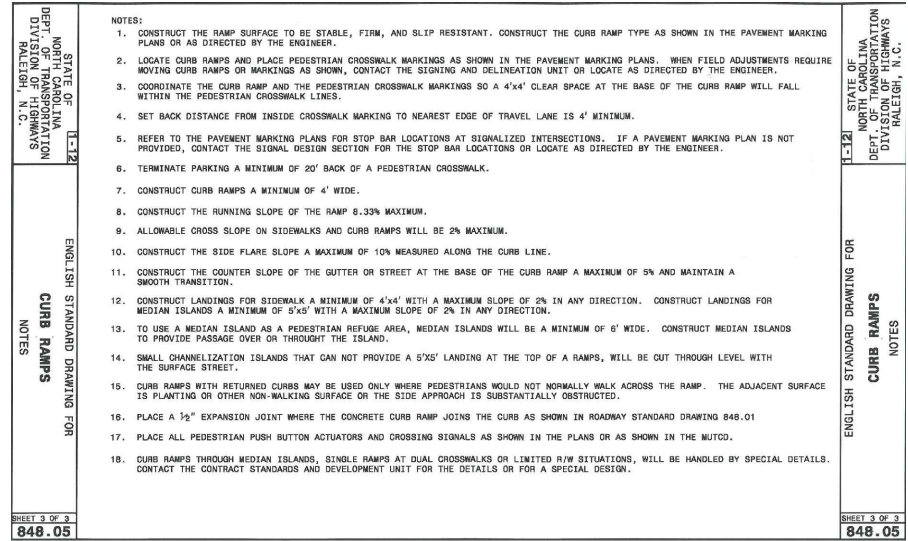
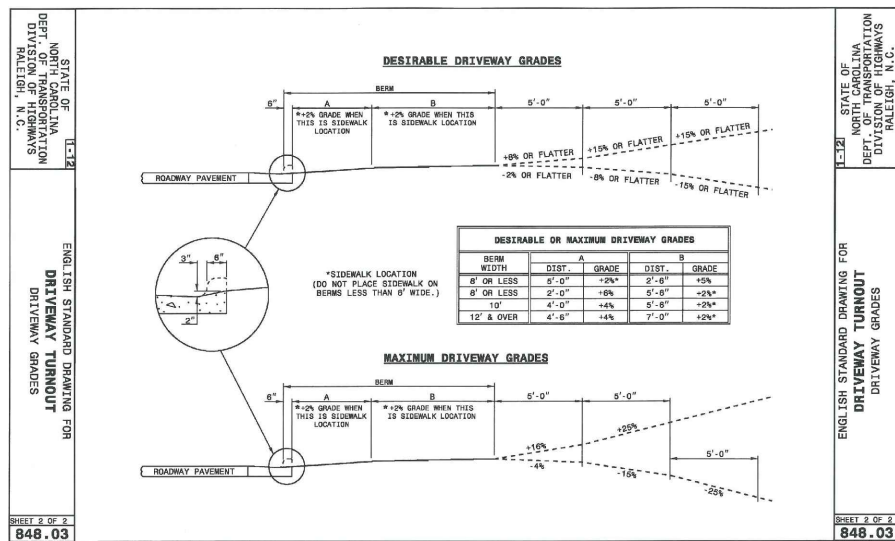
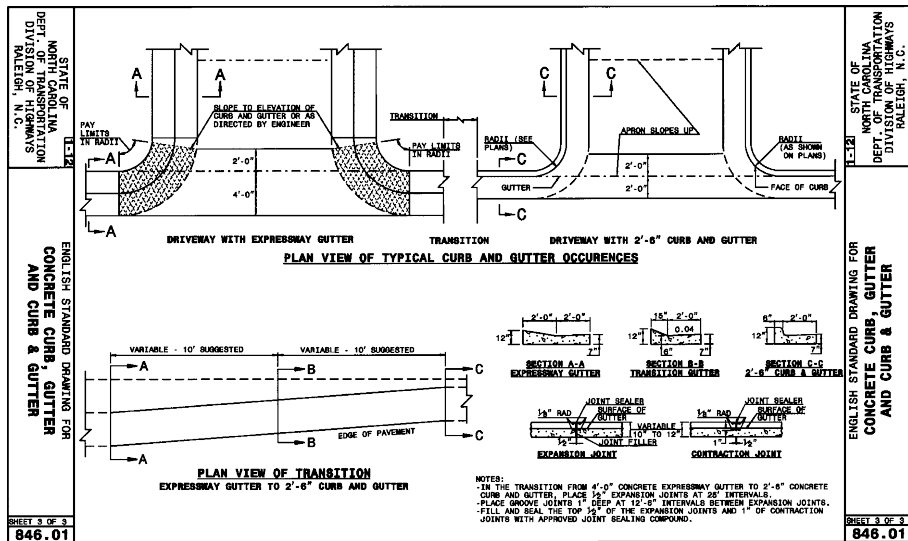
DocuSigned by:  
*Mark Reid*  
58637F049AD8407

NORTH CAROLINA  
PROFESSIONAL  
SEAL  
12634





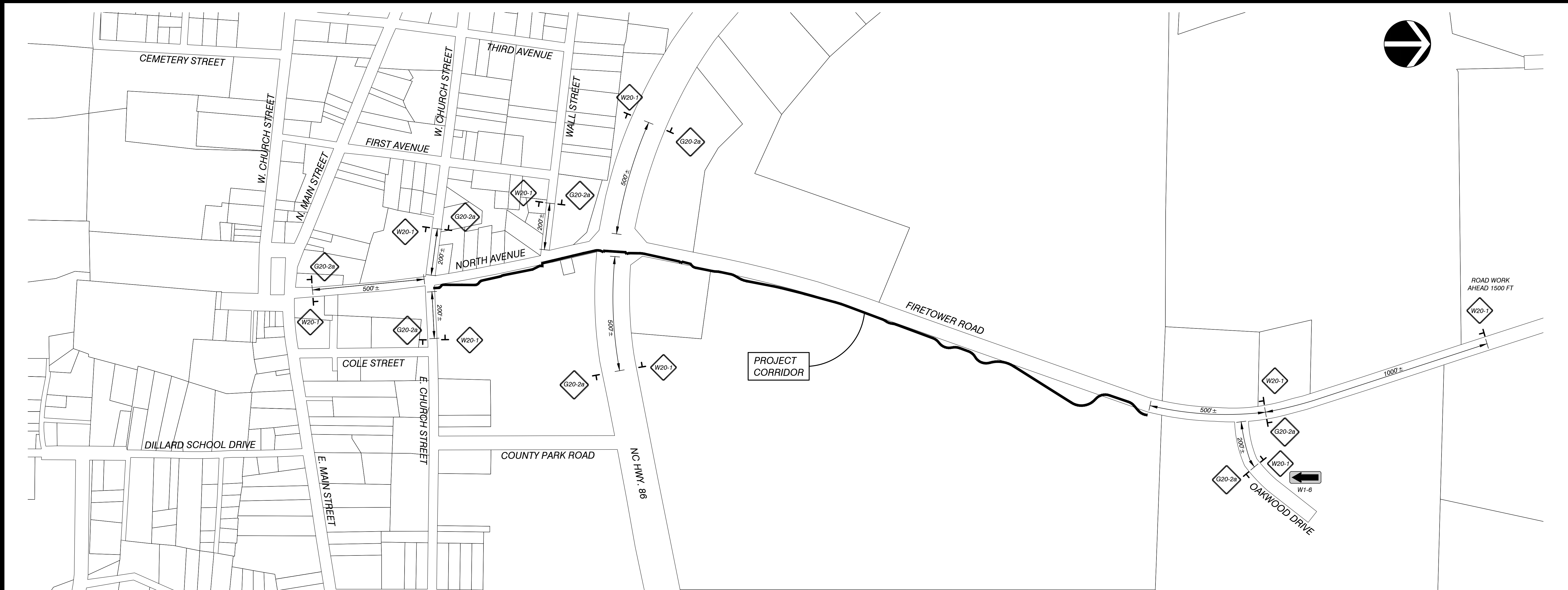












OVERALL MAP

SCALE: 1" = 200'

GENERAL TRAFFIC CONTROL NOTES

1. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH ALL NCDOT AND MUTCD SPECIFICATIONS AND REQUIREMENTS.
2. CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN DETAIL DRAWINGS, STANDARD DETAILS AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS, OR RESULT IN DUPLICATE, OR UNDESIRABLE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING OR REMOVAL OF DEVICES, AS DIRECTED BY THE ENGINEER.
3. CONTRACTOR SHALL PROVIDE STATIONARY WORK ZONE SIGNS (ROAD CONSTRUCTION AHEAD AND END CONSTRUCTION) AS SHOWN ON TRAFFIC CONTROL PLAN OR AS DIRECTED BY ENGINEER.
4. INSTALL STATIONARY ADVANCE WORK ZONE WARNING SIGNS A MINIMUM OF 3 DAYS PRIOR TO BEGINNING WORK.
5. FLAGGERS SHALL BE CERTIFIED IN WORK ZONE TRAFFIC CONTROL OPERATIONS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

1. REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED, OR AS DIRECTED BY THE ENGINEER.
2. WHEN WORKING WITHIN 10 FEET OF EDGE OF PAVEMENT, CONTRACTOR WILL BE ALLOWED TO CLOSE ADJACENT TRAVEL LANE, PROVIDED TRAFFIC CONTROL IS MAINTAINED IN ACCORDANCE WITH EITHER METHOD A, B OR C AS FOLLOWS:
  - A. SKINNY DRUMS ARE USED TO PROVIDE 2 TRAVEL LANES, ONE IN EACH DIRECTION WITH A MINIMUM LANE WIDTH OF 10' EACH AND 10 FEET OF CLEARANCE BETWEEN TRAVEL LANE AND WORK ZONE.
  - B. PROVIDE FLAGGERS AND SHIFT TRAFFIC TO OPPOSITE LANE PER NCDOT STANDARDS.
  - C. CONTRACTOR PROVIDES WATER FILLED OR CONCRETE BARRIERS IMMEDIATELY ADJACENT TO THE WORK ZONE AREA AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL PROVIDE PERSONNEL AND EQUIPMENT FOR EITHER METHOD A, B OR C IN ACCORDANCE WITH NCDOT STANDARDS, INCLUDING ALL PORTABLE SIGNS.
3. PROVIDE PORTABLE TRAFFIC CONTROL SIGNS AND CHANNELIZING DEVICES TO SHIFT TRAFFIC AS SHOWN ON STANDARD DRAWING 1101.02 OR AS DIRECTED BY THE ENGINEER.
4. SPACE CHANNELIZING DEVICES IN WORK AREA AT 40 FT MAX ON CENTER IN TANGENT SECTIONS AND 10 FT MAX ON CENTER IN RADII SECTIONS. CHANNELIZING DEVICES SHALL BE AT LEAST 3 FT OFF EDGE OF AN OPEN TRAVELWAY WHEN LANE CLOSURES ARE NOT IN EFFECT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

1. BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF THE EXISTING PAVEMENT WHERE THE DROP OFF EXCEEDS 2 INCHES. BACKFILL MATERIAL SHALL BE COMPACTED AND APPROVED BY THE ENGINEER AS SUITABLE MATERIAL FOR THE INTENDED PURPOSE. BACKFILL MATERIAL SHALL BE PROVIDED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PROVIDE ABC STONE BASE AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR INCIDENTAL STONE.

⊥ DENOTES STATIONARY TRAFFIC CONTROL SIGN

SIGN SUMMARY

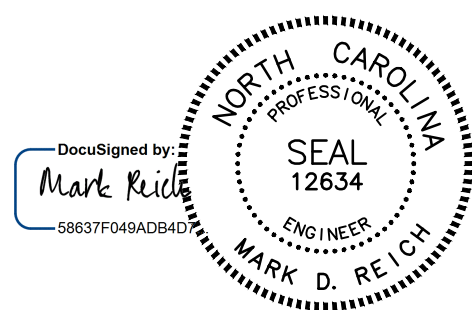
STATIONARY SIGNS

TYPE	DESCRIPTION	SIZE	QUANTITY
W20-1	ROAD WORK AHEAD	48" X 48"	8
G20-2a	END ROAD WORK	48" X 24"	8
W20-1	ROAD WORK AHEAD 1500 FT	48" X 48"	1
W1-6	ONE-DIRECTION LARGE ARROW	48" X 24"	1

CONTRACTOR SHALL PROVIDE ALL OTHER REQUIRED SIGNAGE IN ACCORDANCE WITH NCDOT REQUIREMENTS TO TEMPORARILY CLOSE TRAVEL LANES ADJACENT TO WORK ZONE.

TRAFFIC CONTROL WORK RESTRICTIONS

LANE CLOSURES WILL NOT BE ALLOWED BETWEEN 7:00 AM - 9:00 AM AND FROM 4:00 PM - 7:00 PM, MONDAY THRU FRIDAY, UNLESS OTHERWISE APPROVED BY THE ENGINEER.



REV. 8/24/15 PER NCDOT COMMENTS

NCDOT PROJECT NO. EB-3314 E

PROPOSED SIDEWALK IMPROVEMENTS FOR

TOWN OF YANCEYVILLE

YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC



alley, williams, carmen & king, inc.  
ENGINEERS, ARCHITECTS & SURVEYORS

740 chapel hill road p.o. box 1179  
burlington, n.c. 27215 336/226-5534  
Firm's Engineering License No. F-0203

DATE:  
8/15/14

DRAWN BY:  
WDF

CHECKED BY:  
MDR

TRAFFIC CONTROL  
PLAN

JOB NO.  
13089

DWG NAME: 13089TRAFFICCONTROL.DWG  
SHEET NO.

13.1



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.	<div> <div>1-12</div> <div>           ENGLISH STANDARD DRAWING FOR  <b>TRAFFIC CONTROL DESIGN TABLES</b>            BUFFER SPACE &amp; SIGHT DISTANCE         </div> </div>
<div> <div>1-12</div> <div>           ENGLISH STANDARD DRAWING FOR  <b>TRAFFIC CONTROL DESIGN TABLES</b>            BUFFER SPACE &amp; SIGHT DISTANCE         </div> </div>	<div> <div>1-12</div> <div>           ENGLISH STANDARD DRAWING FOR  <b>TRAFFIC CONTROL DESIGN TABLES</b>            BUFFER SPACE &amp; SIGHT DISTANCE         </div> </div>

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.	<b>1-12</b>	<p style="text-align: center;"><b>TEMPORARY BARRIER FLARE RATES</b></p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th>POSTED LIMIT SPEED (MPH)</th><th>AVERAGE (A/B)</th><th>SHOULDER (A/B)</th></tr> </thead> <tbody> <tr><td>≤ 30</td><td>0 : 1</td><td>7 : 1</td></tr> <tr><td>35</td><td>2 : 1</td><td>8 : 1</td></tr> <tr><td>40</td><td>10 : 1</td><td>8 : 1</td></tr> <tr><td>45</td><td>12 : 1</td><td>10 : 1</td></tr> <tr><td>50</td><td>14 : 1</td><td>11 : 1</td></tr> <tr><td>55</td><td>16 : 1</td><td>12 : 1</td></tr> <tr><td>60</td><td>18 : 1</td><td>14 : 1</td></tr> <tr><td>65</td><td>18 : 1</td><td>15 : 1</td></tr> <tr><td>70</td><td>20 : 1</td><td>15 : 1</td></tr> </tbody> </table>	POSTED LIMIT SPEED (MPH)	AVERAGE (A/B)	SHOULDER (A/B)	≤ 30	0 : 1	7 : 1	35	2 : 1	8 : 1	40	10 : 1	8 : 1	45	12 : 1	10 : 1	50	14 : 1	11 : 1	55	16 : 1	12 : 1	60	18 : 1	14 : 1	65	18 : 1	15 : 1	70	20 : 1	15 : 1	<b>STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.</b>
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ENGLISH STANDARD DRAWING FOR <b>TRAFFIC CONTROL DESIGN TABLES</b> TEMPORARY BARRIER FLARE RATES			<b>ENGLISH STANDARD DRAWING FOR TRAFFIC CONTROL DESIGN TABLES</b> TEMPORARY BARRIER FLARE RATES																														
<p style="text-align: center;"><b>GENERAL NOTES</b></p> <ol style="list-style-type: none"> <li>1- REFER TO 2002 ROADSIDE DESIGN GUIDE.</li> <li>2- A BARRIER IS CONSIDERED FLARED WHEN IT IS NOT PARALLEL TO THE EDGE OF THE TRAVELWAY.</li> <li>3- THE PRIMARY USE OF BARRIERS ARE FOR WORK AREA PROTECTION. WHEN SERVING THE ADDITIONAL FUNCTION OF A CHANNELIZING DEVICE, SUCH AS WHEN SHIFTTING TRAFFIC, BARRIER TAPERS SHALL MEET STANDARD CHANNELIZING TAPER LENGTHS AS SHOWN ON STD. 1101-11 SHEET 1.</li> </ol>																																	
SHEET 3 OF 4 <b>1101-11</b>			<b>SHEET 3 OF 4 1101-11</b>																														

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR  
**TRAFFIC CONTROL DESIGN TABLES**  
SPACING OF TEMPORARY SIGNS IN SERIES

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

SHEET 4 OF 4  
1101.11

1-12

ENGLISH STANDARD DRAWING FOR  
**TRAFFIC CONTROL DESIGN TABLES**  
SPACING OF TEMPORARY SIGNS IN SERIES

SHEET 4 OF 4  
1101.11

DISTANCE TO 4TH SIGN  
REPEAT FOR ANY CONSECUTIVE SIGNS

**STATIONARY OR PORTABLE SIGNS**

REFERENCE POINT


**GENERAL NOTES**

- REFER TO 2009 MUTCD.
- USE THIS STANDARD DRAWING IN CONJUNCTION WITH OTHER TRAFFIC CONTROL ROADWAY STANDARD DRAWINGS WHERE SIGN SPACING DISTANCES A, B, C, ARE SPECIFIED.
- APPLY THE ADVANCE WARNING SIGN SPACING CHART WHERE A SERIES OF 2 OR MORE SIGNS ARE USED. ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE. FIELD ADJUST AS VARIOUS CONDITIONS OCCUR. SIGN AS LIMITED SIGHT DISTANCE, OBSTRUCTION INTERFERENCES, ETC.

**ADVANCE WARNING SIGN SPACING CHART**


PORTED SPEED LIMIT (MPH)	RECOMMENDED DISTANCE BETWEEN SIGNS (FEET)		
	A	B	C
≤ 35	200	200	200
40-50	300	350	350
55	500	500	500
CONTROLLED ACCESS ROADS (≤ 55)	1000	1500	2700

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION RALEIGH, N.C.	<div style="display: flex; justify-content: space-between;"> <div>           STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION RALEIGH, N.C.         </div> <div>           1-12         </div> </div> <p style="text-align: center;">INSTALL THE GROUND SUPPORT (STUD) BETWEEN THE SIGN SUPPORT AND THE APPROACHING TRAFFIC TO THE ADJACENT TRAVEL LANE.</p>	<div style="display: flex; justify-content: space-between;"> <div>           STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION RALEIGH, N.C.         </div> <div>           1-12         </div> </div> <p style="text-align: center;">INSTALL THE GROUND SUPPORT (STUD) BETWEEN THE SIGN SUPPORT AND THE APPROACHING TRAFFIC TO THE ADJACENT TRAVEL LANE.</p>	STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION RALEIGH, N.C.
ENGLISH STANDARD DRAWING FOR STATIONARY WORK ZONE SIGNS SPLICING DETAIL	<div style="display: flex; justify-content: space-between;"> <div>           STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION RALEIGH, N.C.         </div> <div>           1-12         </div> </div> <p style="text-align: center;">INSTALL THE GROUND SUPPORT (STUD) BETWEEN THE SIGN SUPPORT AND THE APPROACHING TRAFFIC TO THE ADJACENT TRAVEL LANE.</p>	<div style="display: flex; justify-content: space-between;"> <div>           STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION RALEIGH, N.C.         </div> <div>           1-12         </div> </div> <p style="text-align: center;">INSTALL THE GROUND SUPPORT (STUD) BETWEEN THE SIGN SUPPORT AND THE APPROACHING TRAFFIC TO THE ADJACENT TRAVEL LANE.</p>	STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION RALEIGH, N.C.

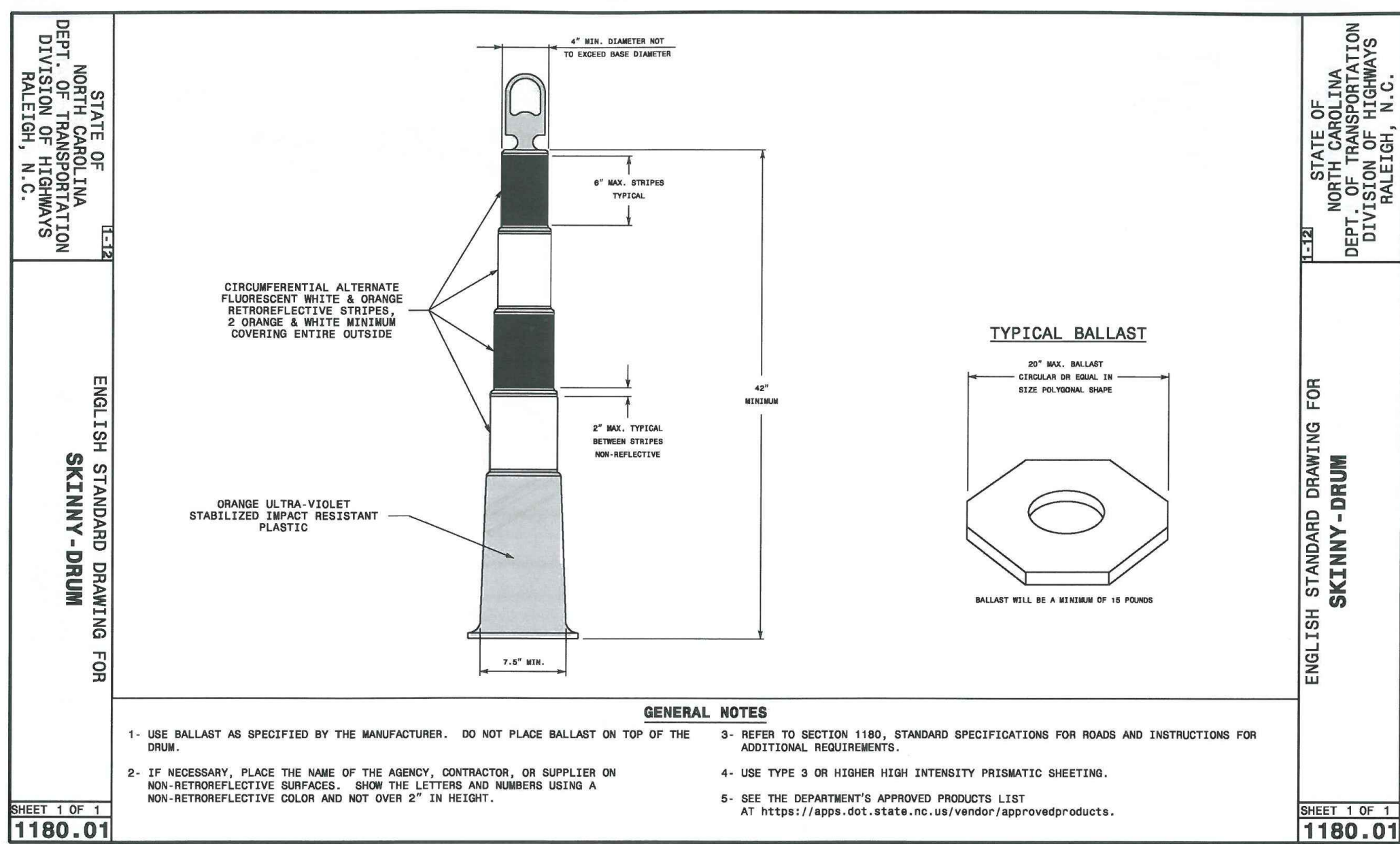
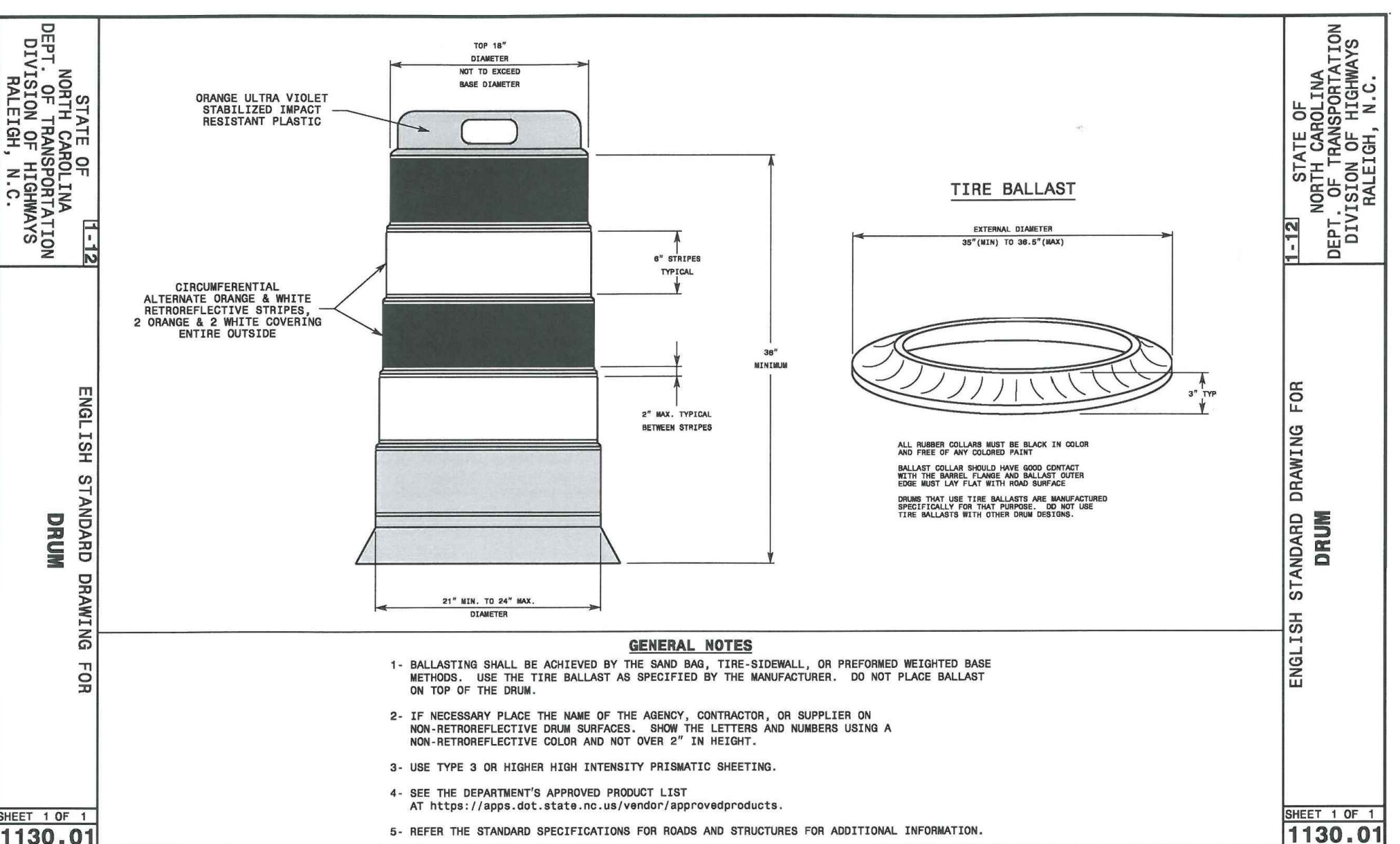
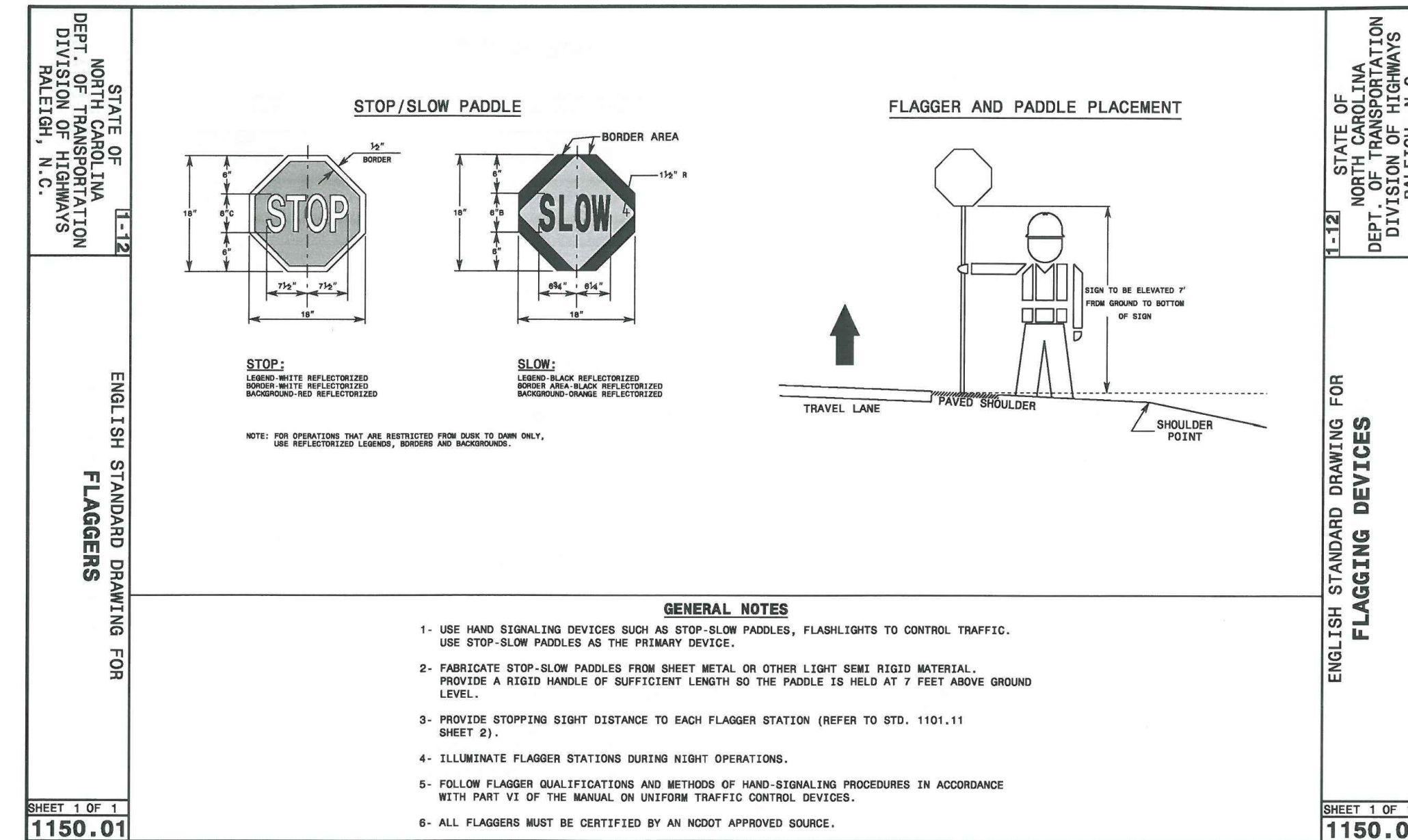
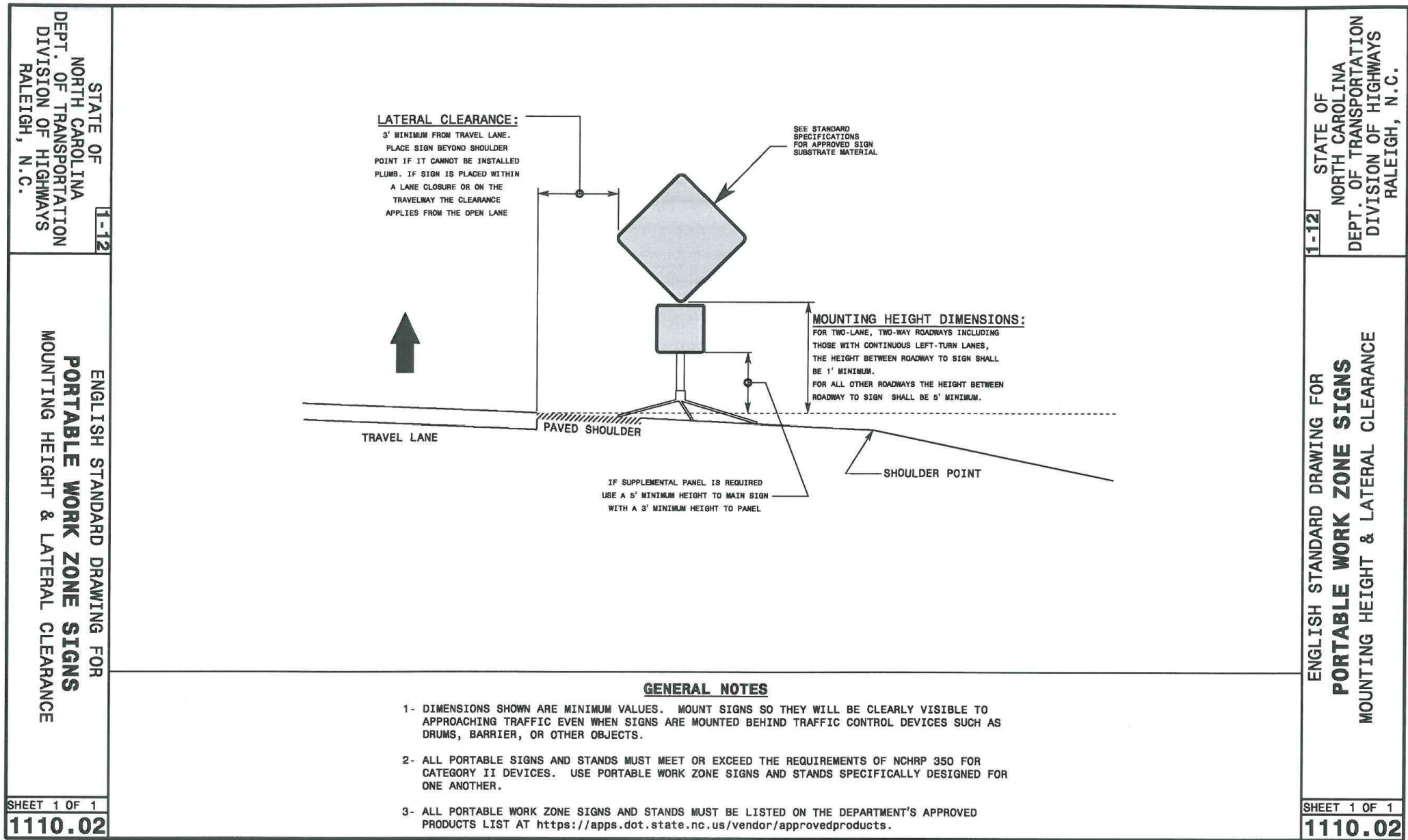
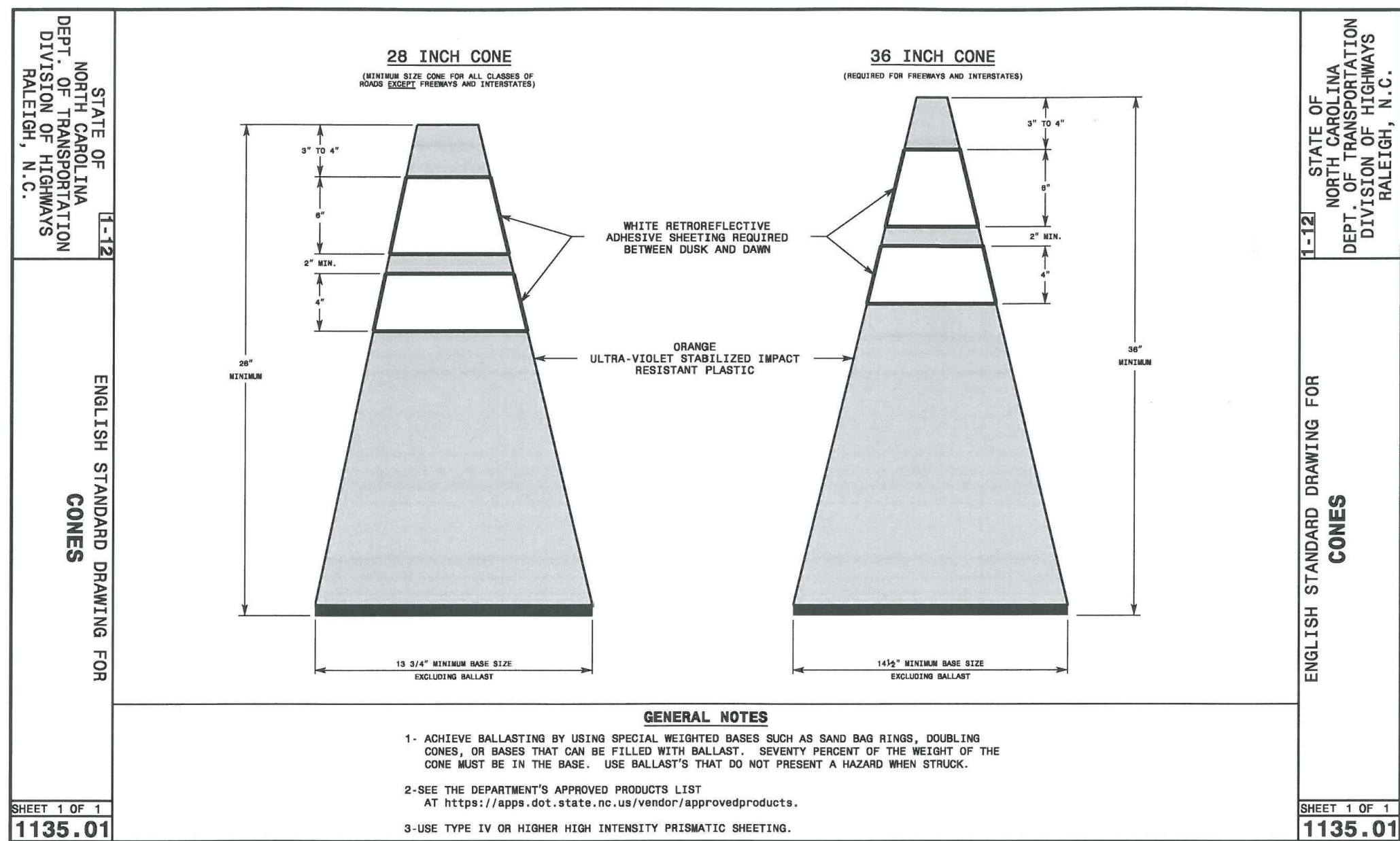
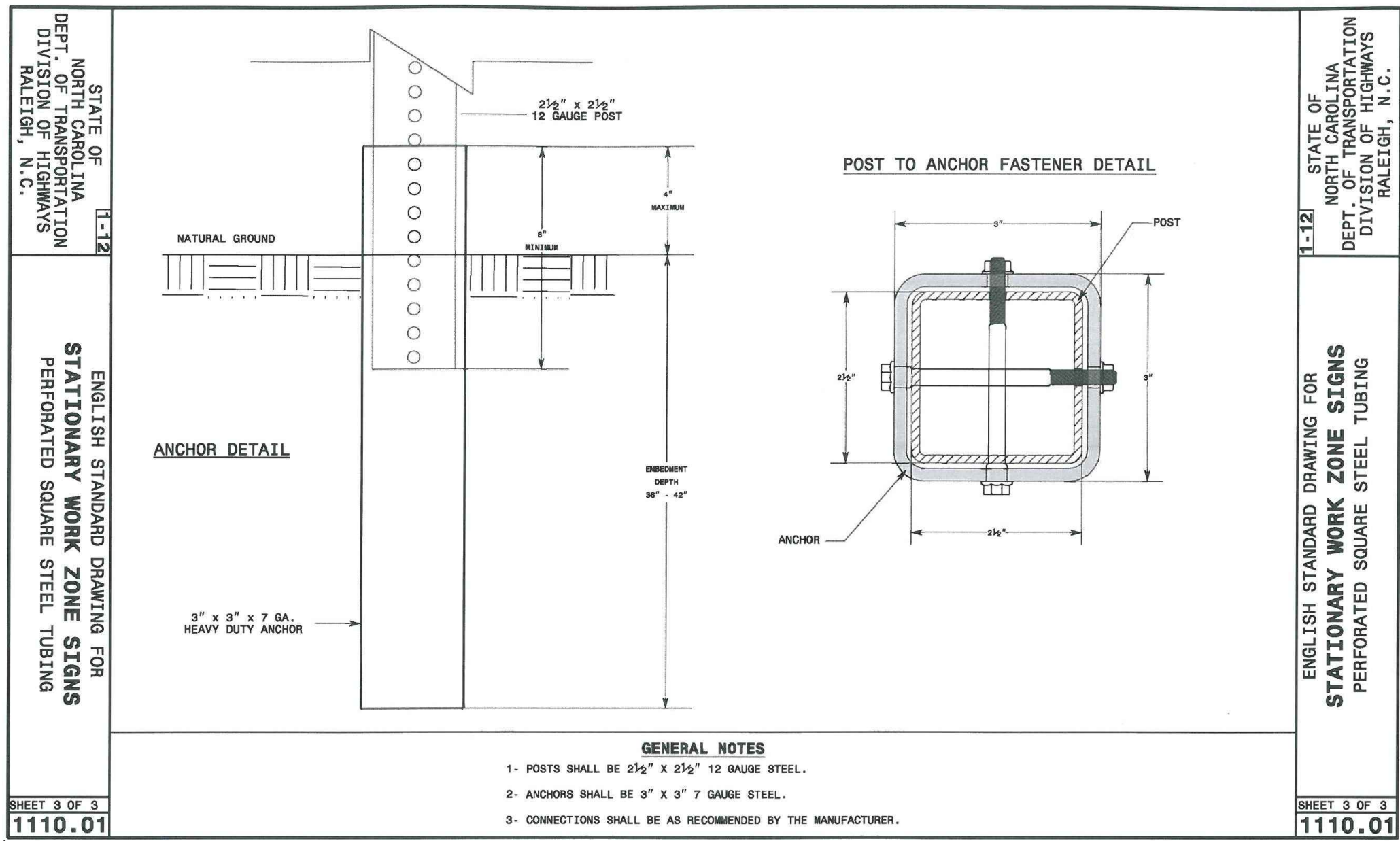


NCDOT PROJECT NO. EB-3314 E  
 PROPOSED SIDEWALK IMPROVEMENTS FOR  
**TOWN OF YANCEYVILLE**  
 YANCEYVILLE, NORTH CAROLINA  
 YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC

**alley, williams, carmen & king, inc.**  
 ENGINEERS, ARCHITECTS & SURVEYORS  
 740 chapel hill road  
 burlington, n.c. 27215  
 p.o. box 117  
 336/226-5533

<h1 style="margin: 0;">NCDOT PROJECT NO. EB-3314 E</h1>		
<h2 style="margin: 0;">PROPOSED SIDEWALK IMPROVEMENTS FOR</h2>		
<h1 style="margin: 0;">TOWN OF YANCEYVILLE</h1>		
<p>YANCEYVILLE, NORTH CAROLINA YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC</p>		
	<p>alley, williams, carmen &amp; king, inc. ENGINEERS, ARCHITECTS &amp; SURVEYORS</p>	
	<p>740 chapel hill road burlington, n.c. 27215</p>	<p>p.o. box 117 336/226-5533</p>
	<p>Firm's Engineering License No. F-0203</p>	
	<p><b>DATE:</b> 8/15/14</p>	
	<p><b>DRAWN BY:</b> WDF</p>	
<p><b>CHECKED BY:</b> MDR</p>		<p><b>JOB NO.</b> 13069</p>
<p><b>TRAFFIC CONTROL DETAILS</b></p>		<p><b>DWG. NAME:</b> 13069DETAILS.DWG <b>SHEET NO.</b></p>
		<p style="font-size: 2em; font-weight: bold;">13.2</p>





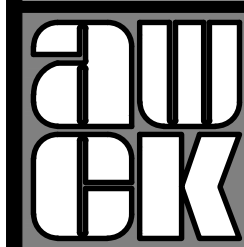
PRELIMINARY DRAWING  
NOT APPROVED FOR CONSTRUCTION

NCDOT PROJECT NO. EB-3314 E

PROPOSED SIDEWALK IMPROVEMENTS FOR

TOWN OF YANCEYVILLE

YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC



alley, williams, carmen & king, inc.  
ENGINEERS, ARCHITECTS & SURVEYORS  
740 chapel hill road p.o. box 1179  
burlington, n.c. 27215 336/226-5534  
Firm's Engineering License No. F-0203

DATE:  
8/15/14  
DRAWN BY:  
WDF  
CHECKED BY:  
MDR

TRAFFIC CONTROL  
DETAILS

JOB NO.  
13069  
DWG NAME: 13069DETAILS.DWG  
SHEET NO.

13.3





STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR  
**MATTING INSTALLATION**

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH, N.C.

**MATTING IN DITCHES**

**MATTING ON SLOPES**

**DIAGRAM (A)**

**DIAGRAM (B)**

**NOTE:**

THIS DETAIL APPLIED TO STRAW, COGSLON, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A WEDGEMEND WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

SHEET 1 OF 1  
**1631.01**

NOT TO SCALE

SHEET 1 OF 1  
**1631.01**

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
HALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR  
**ROCK INLET SEDIMENT TRAP TYPE C**

1/4" WIRE MESH

MAXIMUM POST SPACING 4 FT.

SECTION A-A

MULTI-DIRECTIONAL FLOW

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
HALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR  
**ROCK INLET SEDIMENT TRAP TYPE C**

1/4" WIRE MESH

SEE NOTE FOR POST DESCRIPTION

SECTION Y-Y

SINGLE-DIRECTIONAL FLOW

NOTE  
USE NO. 6 OR NO. 57 STONE  
FOR SEDIMENT CONTROL STONE.  
USE 24 GAUGE MINIMUM WIRE  
MESH HARDWARE CLOTH WITH  
1/4 INCH MESH OPENINGS.  
PLACE TOP OF WIRE MESH  
A MINIMUM OF ONE FOOT BELOW  
THE SHOULDER OR ANY  
DIVERSION POINT.  
INSTALL WIRE MESH UNDER  
SEDIMENT CONTROL STONE.  
USE 5" STEEL POST, INSTALLED  
1.5' DEEP MINIMUM, AND  
OF THE SELF-FASTENER  
ANGLE STEEL TYPE.  
SPACE POSTS A MAXIMUM  
OF 4'.

SHEET 1 OF 1

1632-03

SHEET 1 OF 1

1632-03

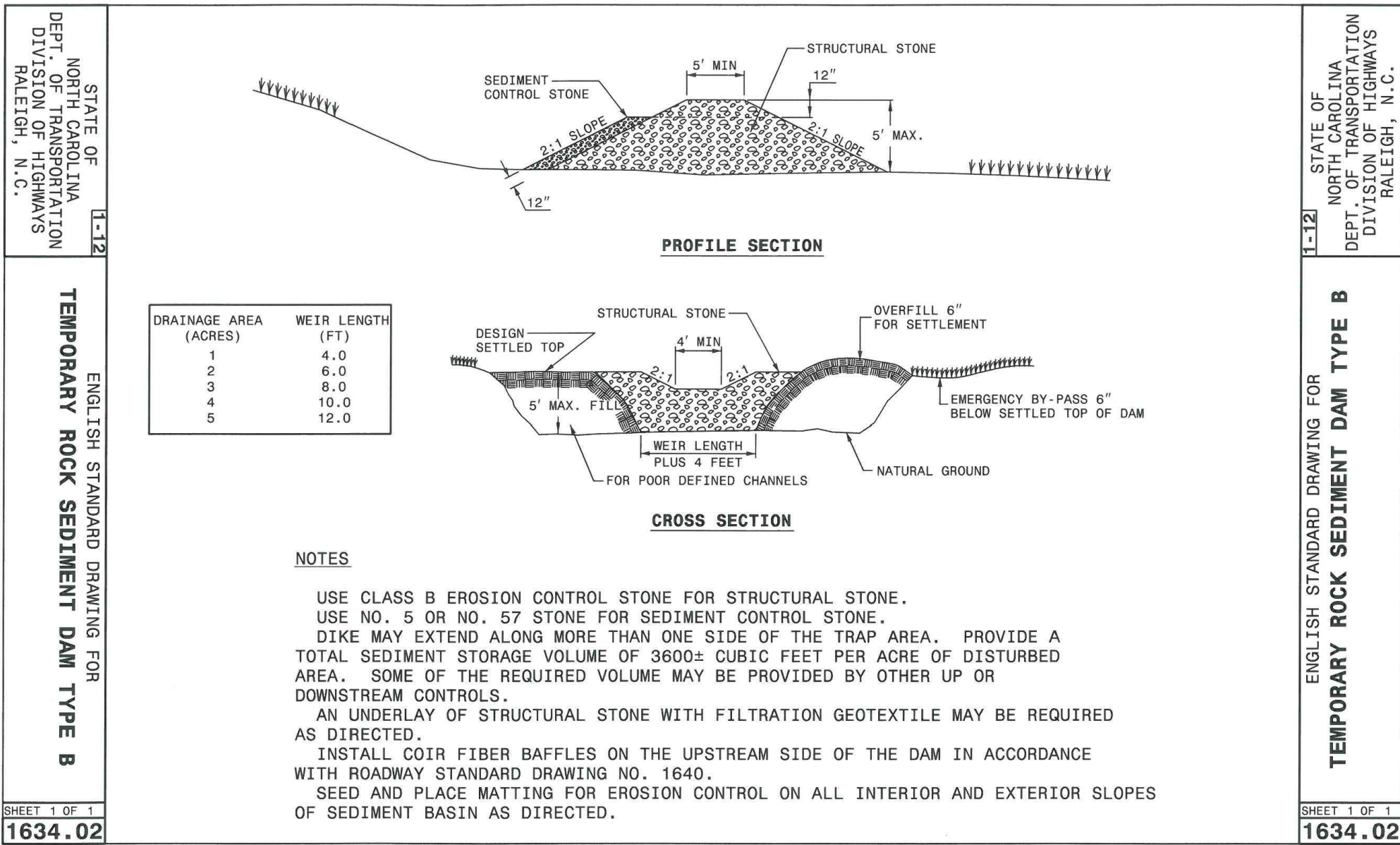
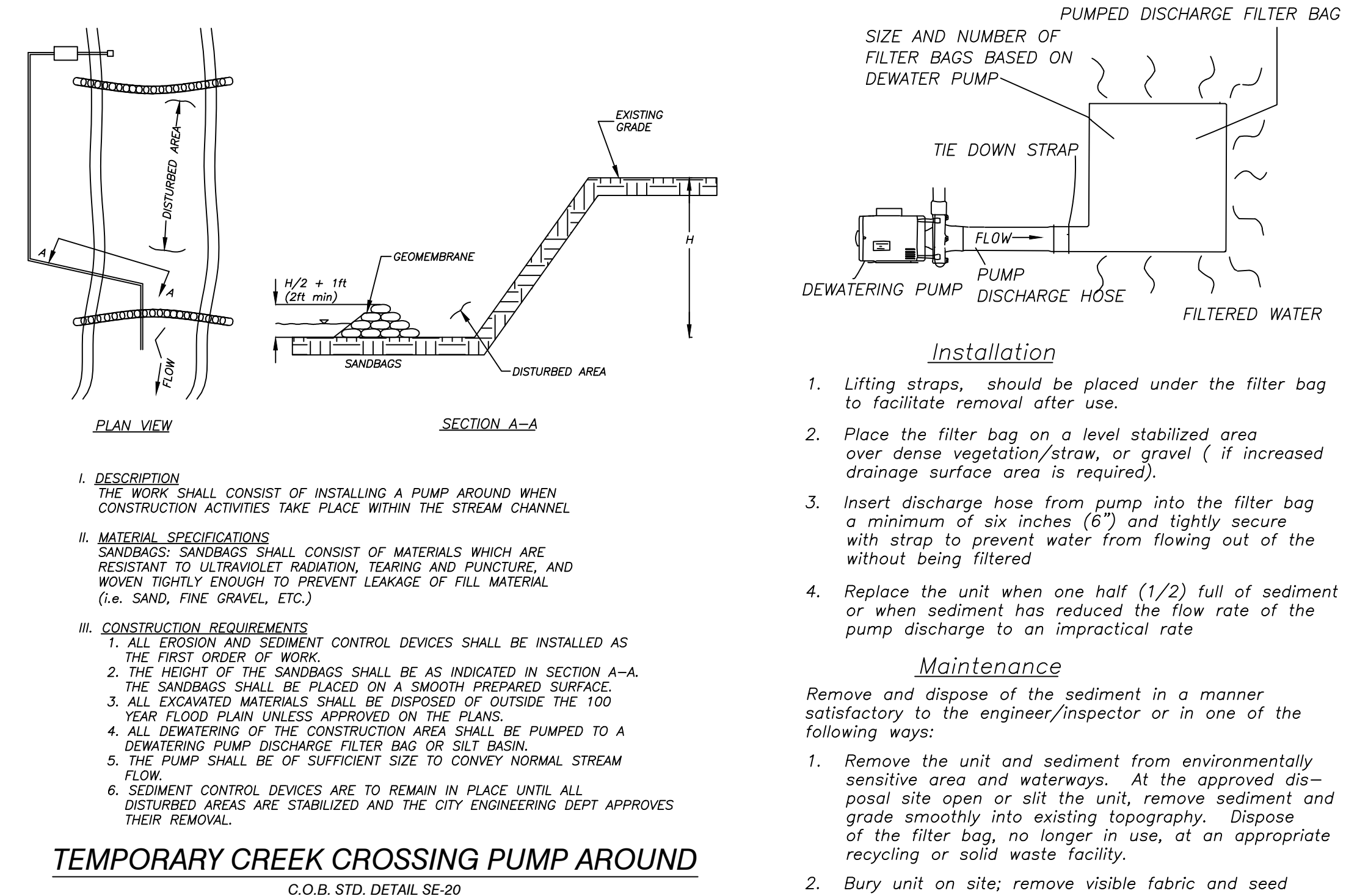
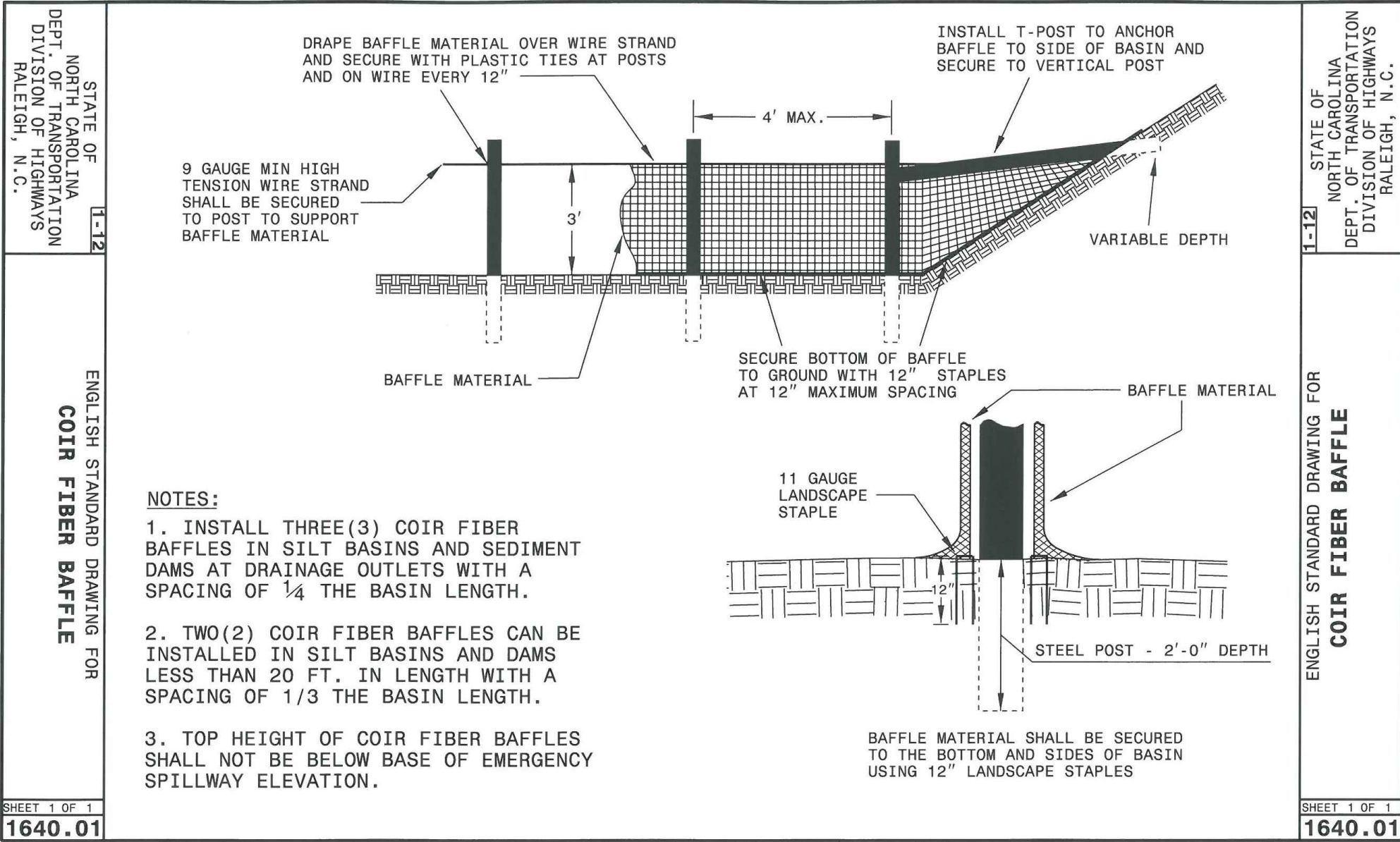
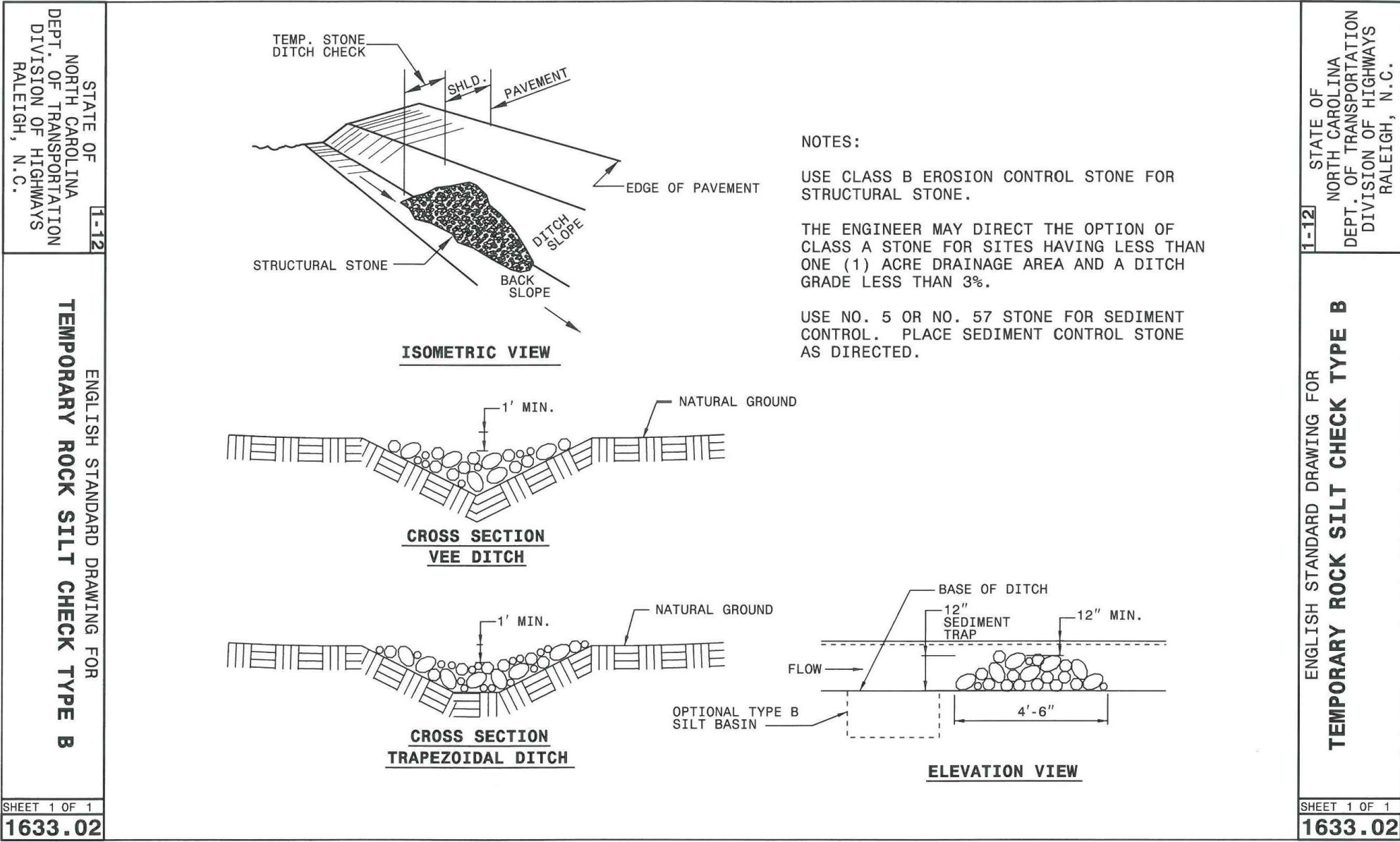
<div style="float: right; width: 60px;">STATE OF NORTH CAROLINA DIVISION OF TRANSPORTATION RALEIGH, N.C.</div> <div style="clear: both;"></div> <div style="text-align: center;">ENGLISH STANDARD DRAWING FOR <b>SPECIAL STILLING BASIN</b></div> <div style="font-size: small;">SHEET 1 OF 1 <b>1630.06</b></div>	<p>The diagram illustrates a cross-section of a special stilling basin. It shows a horizontal cylindrical structure resting on a layer of sediment control stone. The stone layer is labeled "8\" of SEDIMENT CONTROL STONE". Below the stone is a "FILTRATION GEOTEXTILE". The entire structure sits on the "EXISTING TERRAIN". The distance from the start of the stone layer to the end of the cylinder is dimensioned as "15.0' to 20.0'". To the right of the stone layer is the "STREAM BANK".</p> <p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.</li> <li>PROVIDE STABILIZED OUTLET TO STREAM BANK.</li> <li>WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE SPECIAL STILLING BASIN ABOVE NATURAL GROUND.</li> </ul> <p style="text-align: right;"><b>NOT TO SCALE</b></p>	<div style="float: left; width: 60px;">STATE OF NORTH CAROLINA DIVISION OF TRANSPORTATION RALEIGH, N.C.</div> <div style="clear: both;"></div> <div style="text-align: center;">ENGLISH STANDARD DRAWING FOR <b>SPECIAL STILLING BASIN</b></div> <div style="font-size: small;">SHEET 1 OF 1 <b>1630.06</b></div>
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DocuSigned by  
**Mark Reich**  
58637049ADB07...

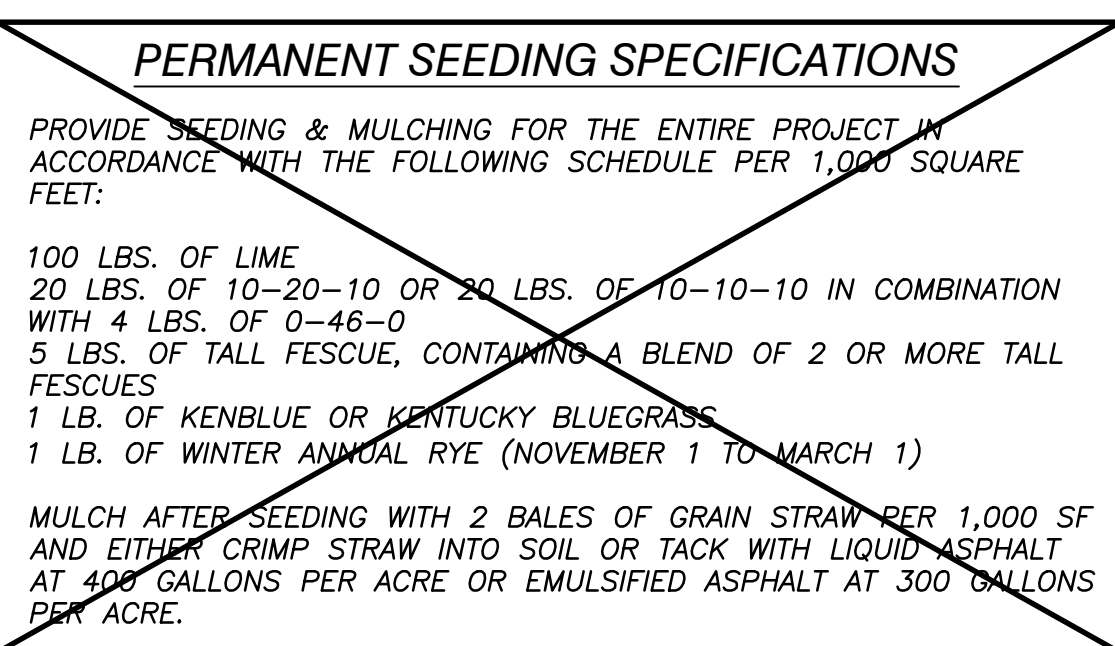
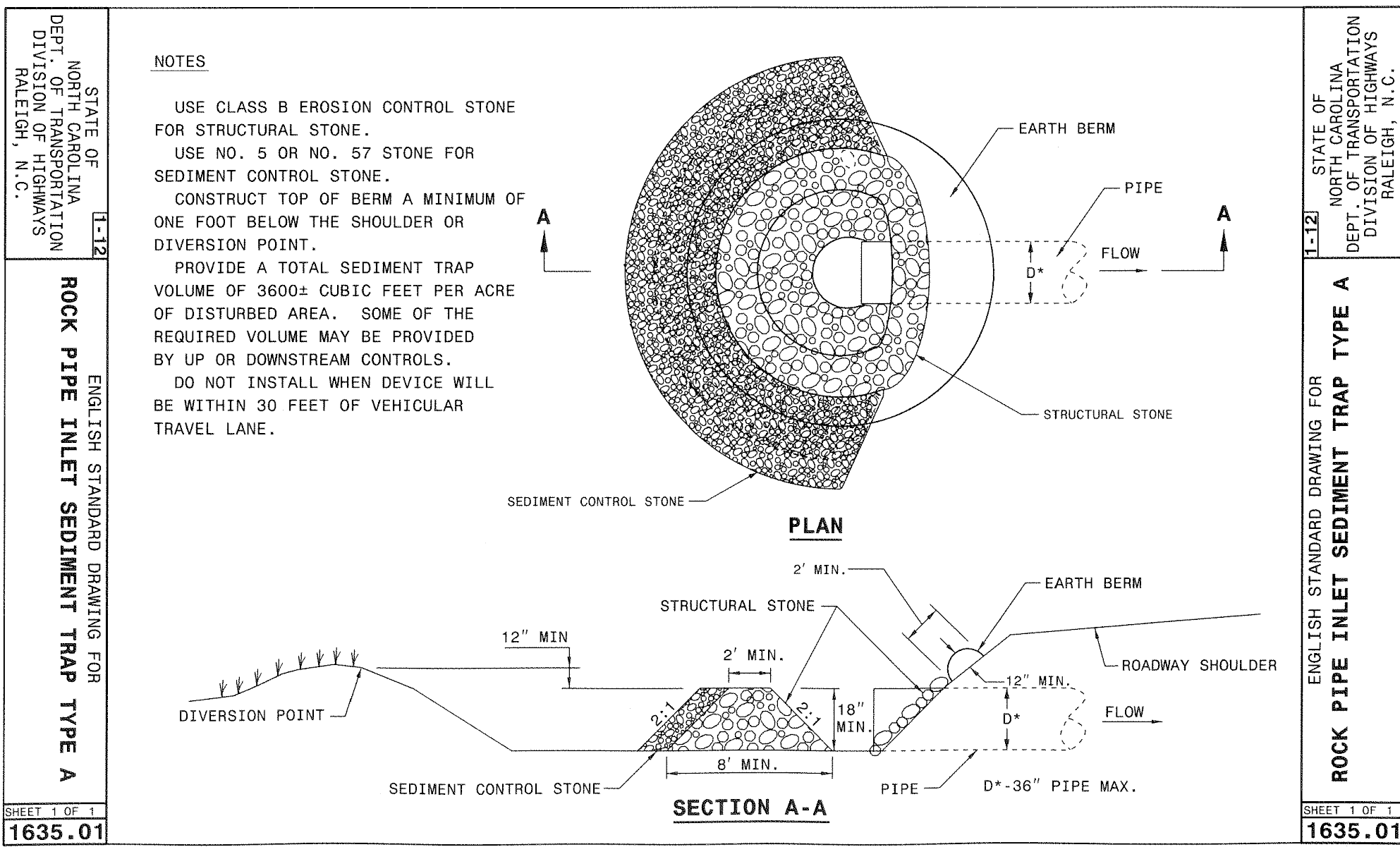
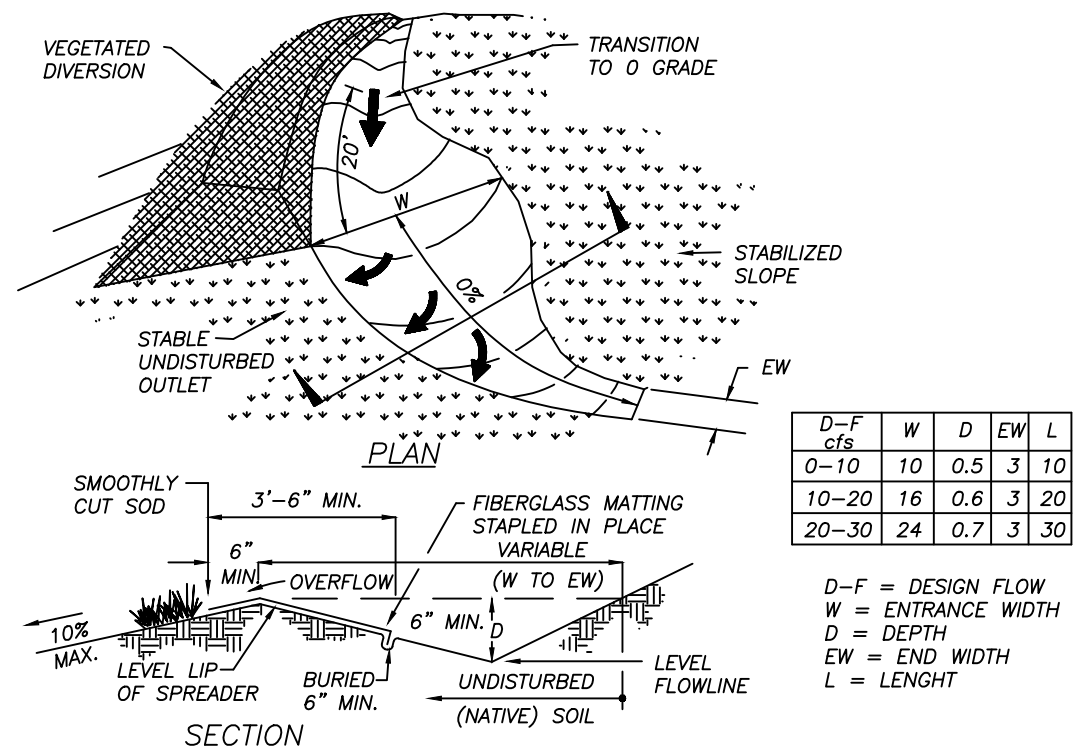
**NORTH CAROLINA**  
PROFESSIONAL  
**SEAL**  
12634  
ENGINEER  
**MARK D. REICH**

REV. 3/12/15 ADDED PLUNGE POOL





- GENERAL EROSION CONTROL NOTES:
1. ALL EROSION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH NCDOT & NCENR - LAND QUALITY SECTION "EROSION AND SEDIMENT CONTROL MANUAL" REQUIREMENTS.
  2. ALL SLOPES SHALL BE SEEDED AND MULCHED WITHIN AT LEAST 14 CALENDAR DAYS OF COMPLETION OF GRADING PHASE. SEE NEW STABILIZATION TIME FRAMES FOR ADDITIONAL INFORMATION.
  3. REMOVE ANY MUD OR SOIL MATERIALS TRACKED ONTO ADJOINING ROADS IMMEDIATELY.
  4. PROVIDE ADDITIONAL MEASURES AS NEEDED TO DIRECT RUNOFF TO EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER.
  5. INSPECT ALL EROSION CONTROL MEASURES ON A WEEKLY BASIS AND WITHIN 24 HOURS OF A 0.5 IN. RAINFALL EVENT (WITHIN A 24 HOUR PERIOD). CONTRACTOR SHALL REPAIR OR PROVIDE ANY REQUIRED MAINTENANCE NOTED DURING INSPECTION AND PRIOR TO CONTINUING WITH ANY CONSTRUCTION ACTIVITIES.
  6. CONTRACTOR SHALL PROVIDE A RAIN GAUGE ON SITE AND SHALL COMPLETE "STORMWATER INSPECTIONS FOR GENERAL PERMIT NCG010000 - LAND DISTURBING ACTIVITIES" FORM ON A WEEKLY BASIS. PROVIDE COPIES OF REPORT TO OWNER/ENGINEER ON A MONTHLY BASIS.
  7. ANY WASTE MATERIAL DISPOSED OF OFF-SITE SHALL BE DISPOSED OF TO A SITE APPROVED BY NCENR, LQS.
  8. ANY BORROW MATERIAL SHALL BE OBTAINED FROM AN NCENR, LQS APPROVED SITE.
  9. PROVIDE COPIES OF APPROVAL LETTERS FOR WASTE/BORROW SITES TO ENGINEER PRIOR TO DISPOSING OF OR OBTAINING MATERIAL FROM SITES.
  10. CONTRACTOR SHALL PROVIDE ENGINEER WITH A COPY OF THE CERTIFICATION OF ALL EMPLOYEES MAINTAINING AND INSTALLING EROSION CONTROL DEVICES.



NEW STABILIZATION TIMEFRAMES		
Site Area Description	Stabilization	Timeframe Expectations
Perimeter dikes, swales, ditches and slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.

Erosion Control Blanket For Swales			
Left Ditch			
Start Sta	End Sta	Length (LF)	Remarks
12+00 ±	13+00 ±	100	
13+65 ±	17+50 ±	385	
19+00 ±	20+00 ±	100	
22+00 ±	23+00 ±	100	Tie into Existing Ditch
22+90 ±	26+65 ±	375	
32+65 ±	33+15 ±	50	Upstream of Structure 20
Right Ditch			
Start Sta	End Sta	Length (LF)	
17+10 ±	18+00 ±	90	
19+50 ±	30+00 ±	1050	
Total Length (LF)		2275	Assumes 8'W standard role
Total Blanket for Swales (SY)		2022	

Erosion Control Blanket For Slopes			
Left Slope			
Start Sta	End Sta	Area (SY)	
22+90	23+85	95	
24+55	25+95	200	
30+00	31+08	185	
Right Slope			
Start Sta	End Sta	Area (SY)	
6+05	7+80	325	
8+75	9+50	60	
13+50	16+50	265	
18+00	27+50	1110	
30+05	33+00	840	
At Level Spreader		65	
Total Slope Blanket (SY)		3145	

Total Erosion Control Blanket (SY)	2022
Ditches	2022
Slopes	3145
Other	133
Total	5300

NCDOT PROJECT NO. EB-3314 E

PROPOSED SIDEWALK IMPROVEMENTS FOR

**TOWN OF YANCEYVILLE**

YANCEYVILLE, NORTH CAROLINA  
YANCEYVILLE TOWNSHIP, CASWELL COUNTY, NC

alley, williams, carmen & king, inc.  
ENGINEERS, ARCHITECTS & SURVEYORS

740 chapel hill road  
burlington, n.c. 27215

p.o. box 1179  
336/226-5534

Firm's Engineering License No. F-0203

DATE: 8/15/14

DRAWN BY: WDF

CHECKED BY: MDR

EROSION CONTROL DETAILS

JOB NO. 13069

DWG NAME: 13069DETAILS.DWG

SHEET NO.

14.2



